

Appendix

Procedure Skills & Supervision Survey

Medical Education Regional Network

1. The last four digits of my SSN are:

2. My institution is:

Kaiser Oakland

Stanford

University of California - Irvine

University of California - Los Angeles

University of California - San Diego

University of California - San Francisco

University of Southern California

3. I am a:

PGY-1

PGY-2

PGY-3

Other, please specify

4. I am a:

M

F

5. My career as i see it now is:

Non-clinical (consulting, pharmaceutical, etc.)

General internal medicine (clinic based)

General internal medicine (hospital based)

Non-invasive subspecialty (endocrine, ID, rheum)

Invasive procedure sub-specialty (Cardiology,

Pulm/ICU, GI, Renal)

6. How many of the following procedures have you PERFORMED during residency?

Paracentesis:

Thoracentesis:

Lumbar Puncture:

Femoral Line Placement:

IJ/Subclavian Line Placement:

7. How many of the following procedures have you PERFORMED ON A SIMULATOR during residency?

Paracentesis:

Thoracentesis:

Lumbar Puncture:

Femoral Line Placement:

IJ/Subclavian Line Placement:

8. How often do you do the following when performing a PARACENTESIS, THORACENTESIS, LUMBAR PUNCTURE? Answer N/A if you have never performed a bedside procedure.						
Review steps of procedure beforehand w/ supervisor	Never	~25%	~50%	~75%	Always	N/A
Review steps of the procedure in the literature	Never	~25%	~50%	~75%	Always	N/A
Obtain Informed Consent	Never	~25%	~50%	~75%	Always	N/A
Observe Universal Protocol of a "Time Out" - identify patient, procedure, & site	Never	~25%	~50%	~75%	Always	N/A
Have supervision by a dedicated proceduralist	Never	~25%	~50%	~75%	Always	N/A
Verbalization of steps during the procedure with your supervisor	Never	~25%	~50%	~75%	Always	N/A
Receive constructive feedback	Never	~25%	~50%	~75%	Always	N/A
Write a Procedure Note	Never	~25%	~50%	~75%	Always	N/A

9. How often do you do the following when performing a IJ or SUBCLAVIAN CENTRAL LINE? Answer N/A only if you have never done this procedure.						
Review steps of procedure beforehand w/ supervisor	Never	~25%	~50%	~75%	Always	N/A
Review steps of the procedure in the literature	Never	~25%	~50%	~75%	Always	N/A
Obtain Informed Consent	Never	~25%	~50%	~75%	Always	N/A
Observe Universal Protocol of a "Time Out" - identify patient, procedure & site	Never	~25%	~50%	~75%	Always	N/A
Wash Hands	Never	~25%	~50%	~75%	Always	N/A
Observe proper barrier techniques: gowns, drapes, mask, head cover	Never	~25%	~50%	~75%	Always	N/A
Have supervision by a dedicated proceduralist or ICU fellow	Never	~25%	~50%	~75%	Always	N/A
Verbalization of steps during the procedure with your supervisor	Never	~25%	~50%	~75%	Always	N/A
Receive constructive feedback	Never	~25%	~50%	~75%	Always	N/A
Obtain a CXR after the procedure	Never	~25%	~50%	~75%	Always	N/A
Write a Procedure Note	Never	~25%	~50%	~75%	Always	N/A

10. How often do you use bedside ultrasound guidance in the following procedures? Answer N/A only if you have never done this procedure before.						
Paracentesis	Never	~25%	~50%	~75%	Always	N/A
Thoracentesis	Never	~25%	~50%	~75%	Always	N/A
Femoral Line	Never	~25%	~50%	~75%	Always	N/A
Internal Jugular Line	Never	~25%	~50%	~75%	Always	N/A
Subclavian Line	Never	~25%	~50%	~75%	Always	N/A

11. I am comfortable *PERFORMING* the following procedures WITH LITTLE OR NO SUPERVISION:				
Paracentesis:	Strongly Disagree	Disagree	Agree	Strongly Agree
Thoracentesis:	Strongly Disagree	Disagree	Agree	Strongly Agree
Lumbar Puncture:	Strongly Disagree	Disagree	Agree	Strongly Agree
Femoral Line Placement:	Strongly Disagree	Disagree	Agree	Strongly Agree
IJ/Subclavian Line Placement:	Strongly Disagree	Disagree	Agree	Strongly Agree

12. I am comfortable *SUPERVISING* the following procedures INDEPENDENTLY:				
Paracentesis:	Strongly Disagree	Disagree	Agree	Strongly Agree
Thoracentesis:	Strongly Disagree	Disagree	Agree	Strongly Agree
Lumbar Puncture:	Strongly Disagree	Disagree	Agree	Strongly Agree
Femoral Line Placement:	Strongly Disagree	Disagree	Agree	Strongly Agree
IJ/Subclavian Line Placement:	Strongly Disagree	Disagree	Agree	Strongly Agree

13. I have supervised the following procedures before feeling comfortable with the proper technique: Anser "Never Supervised" if you have never supervised this procedure before.					
Paracentesis	Strongly Disagree	Disagree	Agree	Strongly Agree	Never Supervised
Thoracentesis	Strongly Disagree	Disagree	Agree	Strongly Agree	Never Supervised
Lumbar Puncture	Strongly Disagree	Disagree	Agree	Strongly Agree	Never Supervised
Femoral Line	Strongly Disagree	Disagree	Agree	Strongly Agree	Never Supervised
Internal Jugular Line	Strongly Disagree	Disagree	Agree	Strongly Agree	Never Supervised
Subclavian Line	Strongly Disagree	Disagree	Agree	Strongly Agree	Never Supervised

14. In the last year, my supervisor for PARACENTESES, THORACENTESES, LUMBAR PUNCTURES is most often:
No one, I perform these procedures independently
Senior Level Resident
Medicine Ward Attending
ICU fellow or attending
Proceduralist service attending
Other, please specify

15. I am satisfied with the level of supervision for PARACENTESES, THORACENTESES and LPs	Strongly Disagree	Disagree	Agree	Strongly Agree
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14. In the last year, my supervisor for FEMORAL LINES, IJ AND SUBCLAVIAN LINES is most often:
No one, I perform lines independently
Senior Level Resident
Medicine Ward Attending
ICU fellow or attending
Proceduralist service attending
Other, please specify

17. I am satisfied with the level of supervision for IJ and SUBCLAVIAN LINES:	Strongly Disagree	Disagree	Agree	Strongly Agree
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18. In a non-emergency situation, non-code situation I have encountered the following complications when performing procedures:
I've encountered NO complications
Inadequate Analgesia
Bowel Perforation
Pneumothorax
Hemothorax
Spinal Hematoma
CSF Leak
Venous Hematoma
Arterial Puncture
Arterial Hematoma
Uncontrolled Bleeding
Patient Death
Other, please specify

19. These complications (non code situation) may have been avoided by:
I have encountered NO complications
More time for preparation
Better characterization of anatomy
Use of ultrasound
Better analgesia/sedation
More adequate supervision
Better training in proper procedure technique
Better patient positioning
Better patient cooperation
No way to avoid these complications
Other, please specify

20. For procedures commonly performed by medicine residents (Paracentesis, Thoracentesis, Lumbar Puncture) how often have procedures been delayed due to resident inexperience/discomfort?
Never
Rarely
Sometimes
Often
Always

21. I am satisfied with the procedure training at my institution				
Paracentesis, Thoracentesis, LP	Strongly Disagree	Disagree	Agree	Strongly Agree
Femoral/IJ/Subclavian Lines	Strongly Disagree	Disagree	Agree	Strongly Agree

22. Should procedures always be performed with supervision by trained faculty? Would you learn better technique with this type of supervision?