

Procedure Requirement

REQUIREMENT A

Every resident must demonstrate the ability to:

Effectively and independently perform the following:

- Discuss the indications and contraindications
- Discuss the risks and complications
- Obtain consent
- Perform standard/universal precautions
- Perform a timeout
- Establish a sterile field
- Apply local anesthetic

For each of the following common internal medicine procedures:

- Lumbar Puncture
- Central Line Insertion
- Paracentesis
- Intraosseous Line Insertion
- Arterial Line Insertion

An online module has been developed for residents to fulfill this requirement. Residents will be assigned to the online module, which includes video instruction and knowledge assessment. A certificate will be awarded to demonstrate successful completion.

REQUIREMENT B

Every resident must select one of the procedure bundles and complete its requirements. A few procedures may be listed as recommended but not required for completion.

- The **General Internist** bundle is the minimum expectation for all residents, focusing on specific instruction and participation in procedures common to internal medicine practice.
- The **Primary Care, Hospitalist, and Subspecialty Fellowship** bundles focus on achieving procedural competency based on the resident's career path. Even if the resident does not complete all their requirements, these bundles can be used as a recommended skill set for future practice.

REQUIREMENT B BUNDLES

	General Internist Bundle	OR	Primary Care Bundle <small>Eligible for certification</small>	OR	Hospitalist Bundle <small>Eligible for certification</small>	OR	Subspecialty Fellowship Bundle
BLS	☆		☆		☆		☆
ACLS	☆		☆		☆		☆
Pap Smear	P P P P ☆		P P P P ☆		P P P P ☆		P P P P ☆
Lumbar Puncture	V S/O/A/P O/A/P O/A/P		V S/A/P A/P A/P		V S/P P ☆		V S/P P ☆
Paracentesis	V S/O/A/P O/A/P O/A/P		V S/A/P A/P A/P		V S/P P ☆		V S/P P ☆
Central Line Insertion	V S/O/A/P O/A/P O/A/P		V S/A/P A/P A/P		V S/P P P P ☆		V S/P P P P ☆
Peripheral IV Insertion	O/A/P O/A/P O/A/P		O/A/P O/A/P O/A/P		O/A/P P P		O/A/P P P
Intraosseous Line or Ultrasound-guided Peripheral IV Insertion	V S/A/P O/A/P O/A/P		V S/A/P O/A/P O/A/P		V S/P P ☆		V S/P P ☆
Arterial Line Insertion	V O/A/P O/A/P O/A/P		V O/A/P O/A/P O/A/P		V O/A/P O/A/P O/A/P		V O/A/P O/A/P O/A/P
Arterial Blood Gas Draw					P P ☆		P P ☆
Arthrocentesis							
Knee Aspiration	S/O/A/P O/A/P O/A/P		S/P P ☆		S/O/A/P O/A/P O/A/P <small>(recommended; not required)</small>		S/O/A/P O/A/P O/A/P
Knee Injection			P P ☆				
Incision & Drainage			P P ☆		O/A/P P P <small>(recommended; not required)</small>		
Skin Biopsy			P P ☆				
Splinting or Casting			P P ☆				
Laceration Repair			P P P <small>(recommended; not required)</small>				

V = video and knowledge assessment, O = observed, A = assisted, P = performed, S = simulated, ☆ = certified or achieved competency

Levels of Participation / Legend:

Abbreviation	Level of Participation	Description
V	Video and Knowledge Assessment	Online modules and passing test score (part of Requirement A)
O	Observed	Resident observed procedure being successfully performed
A	Assisted	Resident assisted another person performing procedure
P	Performed	Resident successfully completed procedure on patient
S	Simulated	Resident successfully completed simulation of procedure
☆	Certified or Achieved Competency	See Procedure-Specific Competency Requirements

PROCEDURE-SPECIFIC COMPETENCY REQUIREMENTS

Each procedure has a minimum required number to be performed successfully for the resident to be considered competent in that procedure. In general, one simulated procedure may count towards this number. See the Procedures section for instructions on achieving competency and approval to perform the procedure independently.

Procedure	Minimum Required for Competency
Pap Smears	5
Lumbar Puncture	3
Paracentesis	3
Thoracentesis	3
Central Line Insertion	5
Intraosseous Line Insertion	3
Ultrasound-guided Peripheral IV Insertion	3
Arterial Line Insertion	3
Arterial Blood Gas Draw	3
Peripheral IV Insertion	5
Intraarticular Knee Aspiration or Injection	3
Incision & Drainage	3
Skin Biopsy	3
Splinting or Casting	3
Laceration Repair	3

RESOURCES FOR PROCEDURES

Online Modules

Residents will be given personal access and assigned the online videos on the residency website at www.oliveviewim.org. The modules include required videos.

Instructional Videos

Assigned videos can also be viewed separately through the New England Journal of Medicine website through the UCLA VPN.

Procedure	Video Link
Central Venous Catheterization:	https://www.nejm.org/doi/full/10.1056/NEJMvcm055053 (V)
Abdominal Paracentesis:	https://www.nejm.org/doi/full/10.1056/NEJMvcm062234 (V)
Lumbar Puncture:	https://www.nejm.org/doi/full/10.1056/NEJMvcm054952 (V)
Thoracentesis:	https://www.nejm.org/doi/full/10.1056/NEJMvcm053812
Arterial Line Insertion:	https://www.nejm.org/doi/full/10.1056/NEJMvcm044149 (V)
Arterial Blood Draw:	https://www.nejm.org/doi/full/10.1056/NEJMvcm0803851
Peripheral IV Insertion:	https://www.nejm.org/doi/full/10.1056/NEJMvcm0706789
Ultrasound-guided Peripheral IV Insertion:	https://www.nejm.org/doi/full/10.1056/NEJMvcm1005951 https://www.youtube.com/watch?v=PgXN2EVawYQ (V) https://www.youtube.com/watch?v=Vrnbq830xCo (V)
Intraosseous Line Insertion:	https://www.nejm.org/doi/full/10.1056/NEJMvcm1211371
Punch Biopsy of Skin:	https://www.nejm.org/doi/full/10.1056/NEJMvcm1105849
Abscess Incision & Drainage:	https://www.nejm.org/doi/full/10.1056/NEJMvcm071319
Arthrocentesis of Knee:	https://www.nejm.org/doi/full/10.1056/NEJMvcm051914