

## Module 5 (Procedural Skills) Handout

### Checking Learner Preparation

Before attempting a procedure with a learner, you want to identify their preparedness in order to maximize success. Using checklists such as this can help review important aspects of a procedure ahead of time:

Indications	• Why is the procedure being done?
Contraindications	• Are there any contraindications
Materials	• What materials are needed?
Inform patient	• What does the patient need to know?
Technique	• How is the procedure done?
Complications	• What problems can develop?
Interpretation	• How do you assess the procedure?

### Peyton's Four-Step Approach

A recent method for teaching procedural skills was presented by Walker and Peyton, called the Peyton's Four-Step Approach. Here we describe a stepwise process that consists of the following four steps:

<b>Demonstrate</b>	Have student watch a video or live performance of the procedure without comment
<b>Deconstruct</b>	Instructor discusses steps while watching video or reviewing other online resources
<b>Formulate</b>	Learner verbalizes steps prior to procedure
<b>Perform</b>	Learner performs procedure while verbalizing steps

### Additional Procedural Teaching Resources for Learners

Format	Resource	Details
Video	NEJM Videos in Clinical Medicine	Need subscription or institutional access Sample link: <a href="#">Emergency Pericardiocentesis</a>
	EM:Rap	Open Access Sample Link: <a href="#">Transvenous Pacemaker</a>
	EMRA Video Procedure Database	A repository for multiple sources of videos <a href="#">Link to database</a>
Textbook/ Written	StatPearls	Brief summary articles, can access through NCBI or register for free Sample link: <a href="#">Peripheral IV Placement</a>
	Roberts and Hedges	Textbook with in-depth description of procedures, indications  Reference: Roberts JR, Custalow CB, Thomsen TW, eds. Roberts and Hedges' Clinical Procedures in Emergency Medicine and Acute Care. Seventh edition. Elsevier; 2018
	Atlas of Emergency Medicine Procedures	Visual guide to procedures with step-by-step instructions  Reference: Ganti L, ed. Atlas of Emergency Medicine Procedures. Second edition. Springer; 2022.
FOAMed	ALiEM	Web-based articles on procedures Sample link: <a href="#">Endotracheal Intubation</a>
	Emergency Procedures App	Online or phone-based app with guides to procedures Article with links: <a href="#">LITFL article</a>
	emDocs	Web-based articles with step-by-step guide Sample link: <a href="#">Central venous access</a>