

Table 2. Post-didactic narrative feedback.

Post-billing and coding session	"Real notes and why they got down coded would be helpful. Very helpful!"
	"Actually ways for PGY 1 to know how to write an MDM like the different ways and what's best for efficiency and billing. Great session!! Truly helpful"
	"Incredibly done!!"
Post-medicolegal session	"Let's brainstorm some note templates together that would at their most basic, cover these standards!"
	"We need more time! Great topics and worth more time for discussion"
Post-medicolegal session	"Having a session to understand more about what goes into MDM especially as PGY1's having a session where we create a templates for chief complaints would be great too"

17 Procedure Passports: The Journey to Procedural Competency

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Background: Competency in bedside procedures is crucial in emergency medicine. Frequently changing teams and variable levels of direct observation make assessment and subsequent entrustment challenging. Additionally, the ACGME CLER process recommends that staff have easy access to determine when trainees are entrusted to independently perform bedside procedures. To our knowledge, there are no prior efforts to create a standardized process for assessing, determining, and broadcasting entrustment on bedside procedures in EM residents.

Educational Objectives: We implemented a procedure passport for PGY1 EM residents to enhance direct observation and feedback to the learner and provide an objective indicator of competency to supervising physicians and staff.

Curricular Design: By consensus, senior educators identified 8 procedures that PGY2 EM residents could perform without direct supervision for all portions of the procedure. Previously developed and validated local checklists or published validated checklists were adapted via an iterative process and compiled into Qualtrics. All 15 PGY1 EM residents were given a badge buddy with the procedures as a punch card and a QR coded Qualtrics link (Figure 1). Supervising physicians completed the checklists while directly observing the learner in the clinical environment. Each assessment with all checklist items marked as 'done correctly' received a punch. Residents were considered entrustable after 3-5 punches, depending on the procedure. Interns and supervisors were surveyed on their opinions after 4 months.

Effectiveness: Implementation was successful; all residents completed at least 1 assessment, and several are entrusted on multiple procedures. Overall interns and supervisors found it helpful (Table 1). Potential changes

moving forward include improving access to written feedback and increasing awareness amongst nursing staff.

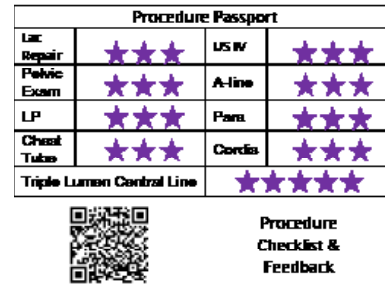


Figure 1. Procedure passport.

Table 1. Representative survey comments.

Intern Comments	Supervisor Comments
"A good way to get good feedback and gain confidence in procedural skills"	"It ensures interns have adequate supervision especially given that they are coming from different medical schools"
"Improved the quality of feedback received on procedures"	"The procedures are very important and reminds you that not every learner starts off being great at any procedure (even lac repairs)"
"A great vessel for procedural observation"	"A good reminder of what steps to ensure are done when you are supervising someone"

18 Constructing a Cloud-Based End-of-Shift Entrustable Professional Activity Assessment System

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Background: The use of competency based entrustable professional activities (EPAs) is transforming the approach to resident assessments across medical disciplines. However, as programs consider transitioning to EPA based assessments, they face the important problem of how to collect and monitor data to promote usage and ensure quality. The solution must be efficient, secure, and support ACGME Milestone reporting.

Objectives: Construct a secure and digital end-of-shift assessment system to increase the frequency and timeliness of feedback to residents; provide an efficient and accessible format to faculty; and include a backend infrastructure to translate EPA data to ACGME Milestones for use by the Clinical Competency Committee.

Design: Utilizing a set of 22 EPAs developed for EM, we designed a resident assessment system using Microsoft's SharePoint cloud platform (Figure). This was chosen for its ease of use and secure sign on capability. QR codes posted in charting rooms enabled access to a Microsoft Form on mobile devices. To assess a resident, faculty members select an EPA on the form and enter the required level of supervision and free text feedback on strengths and areas for improvement.