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Evaluating the Impact of Electronic Interventions on EM Standardized Letter of Evaluation Part B Ratings

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small-group discussions. General leadership confidence and confidence in each LBDQ objective were anonymously surveyed before the curriculum and after each session using a five-point Likert scale (1- Very Confident, 3- Neutral, 5- Very Unconfident). The sessions were conducted at six-week intervals over six months.

Impact/Effectiveness: Figure 1 shows improved resident confidence as a resuscitation leader after participating in each didactic session. Impacts diminished as with increased resident seniority. Figure 2 details improved average resident confidence in each LBDQ objective after the curriculum. These findings suggest that incorporating active learning low-fidelity strategies offers a replicable and effective curriculum for enhancing resuscitation leadership skills among emergency medicine residents, especially when initiated early in their training. Further validation and objective measurement of the curriculum impact is planned.

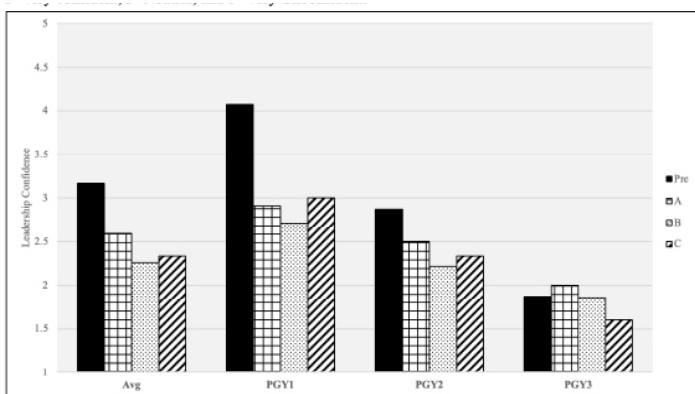


Figure 1. Average confidence acting as a resuscitation leader by residency and PGY class before the curriculum and after each didactic. Resident confidence was rated on a five-point Likert Scale with 1 = Very confident, 3 = Neutral, 5 = Very unconfident.

43 Interprofessional Slit Lamp Training for Emergency Medicine Residents

Mahima Avanti, Susan Wojcik, Jennifer Campoli

Introduction: Interprofessional education enhances collaboration in healthcare, particularly in Emergency Medicine (EM) where diverse skills are essential. EM physicians frequently perform ophthalmological examinations, with 3-5% of emergency department visits requiring slit lamp evaluations. Unlike EM residency, slit lamp training is a core teaching component of ophthalmology residencies, where residents learn to examine various portions of the eye. Many EM residents report limited exposure and insufficient training during residency to comfortably perform thorough eye examinations. This can hinder accurate diagnoses and patient care outcomes, highlighting the need for focused educational programs to enhance residents' comfort.

Objective: To design an interprofessional curriculum

with ophthalmology residents that enhances EM physicians' comfort in diagnosing ocular pathologies using the slit lamp

Curricular Design: 27 EM residents (PGY 1–3) participated in a curriculum that included a video lecture on slit lamp usage followed by an in-person training session led by ophthalmology residents at an outpatient clinic. The session covered techniques for adjusting, focusing, and visualizing ocular structures in addition to assessing pathologies like corneal abrasions and glaucoma. Participants completed an 18-item questionnaire via RedCap before and after training utilizing a 5-point Likert scale and open-ended questions. Questions addressed the amount, type, and perceived adequacy of ophthalmic training. Challenges such as equipment readiness and concerns from previous usage were addressed.

Impact/Effectiveness: The training led to significant improvements ($p < 0.001$) in residents' comfort with slit lamp usage. The mean comfort level increased by 1.67 (95% CI 1.27-2.06). Residents also reported a greater likelihood of incorporating the slit lamp into exams, with a mean difference of 0.40 (95% CI -0.74 to 0.06). Overall, these improvements suggest that similar interprofessional programs could enhance EM physicians' expertise in managing ocular emergencies. Future modifications may include long-term follow-ups to assess skill retention, simulation-based practice, and new interprofessional initiatives.

44 Evaluating the Impact of Electronic Interventions on EM Standardized Letter of Evaluation Part B Ratings

Alexis Pelletier-Bui, Douglas Franzen, Erin Karl, Cullen Hegarty, Anna von Reinhart, Nicole Dubosh, Amanda Doodlesack, Christopher Doty, Joseph House, Kevin Hamilton, Sharon Bord

Introduction: While program directors rate the EM Standardized Letter of Evaluation (SLOE) as the most valuable aspect of residency applications, it has demonstrated inflated scores for applicants, a trend also noted in other specialties' standardized letters. For the 2024-25 application cycle, the CORD SLOE Committee implemented automated cues within the electronic letter platform, with the goal of encouraging SLOE writers towards a bell-shaped distribution in Section B ratings, which pertains to competencies related to communication and professionalism.

Objective: This study aims to determine whether two electronic interventions to the EM SLOE Part B diminished the positive skew of ratings.

Methods

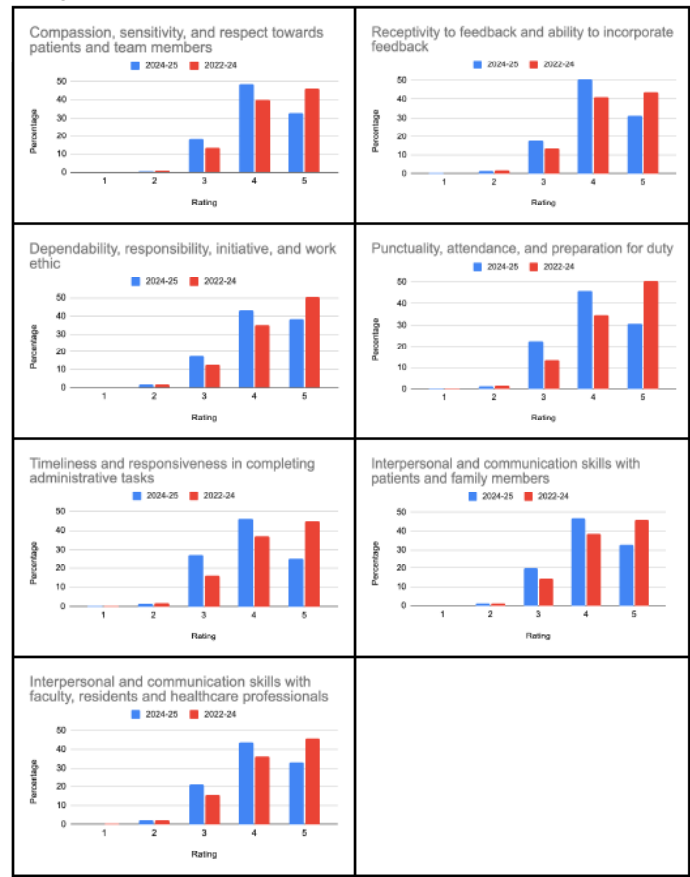
Design: This is a retrospective cohort study comparing anonymized 2024-25 SLOE Part B data to prior cycles (2022-24 aggregate data).

Interventions: For the 2024-25 SLOE, radio buttons for ratings in Part B were pre-populated to a rating of 3 out of 5, rather than being blank. If a rating of 1 or 5 was selected, a pop-up message prompted the writer to provide narrative justification.

Data Analysis: Descriptive statistics were used to summarize the distribution of ratings pre- and post-intervention. Absolute differences in the percentage of students rated 5 were calculated.

Results: Data were extracted from 17,727 letters (5,938 from 2024-25; 11,789 from 2022-24). The distribution of responses to Part B can be seen in Figure 1. The absolute difference in the percentage of students rated 5 for each characteristic ranged from -12.3% to -19.7% (Table 1).

Figure 1. EM Standardized Letter of Evaluation (SLOE) Part B Rating Distributions, 2024-25 vs. 2022-24.



Conclusions: Pre-population of SLOE Part B ratings to 3 out of 5 and pop-up messages prompting letter writers to justify extreme ratings led to a shift in the distribution of scores and a reduction in the percentage of 5 ratings in the 2024-25 cycle, as compared to the prior two cycles. The individual contribution of each intervention to the reduction cannot be determined.

45 Rapid Decisions, Real Evidence: Shaping Tomorrow’s Emergency Physicians with an Innovative Evidence-Based Medicine Curriculum

Sydney Miller, Brett Todd

Introduction: Evidence-based medicine (EBM) is an important facet of medical education, yet surveys show that residents have low confidence in EBM skills and poor understanding of EBM concepts. The literature on EBM education is particularly limited in emergency medicine (EM). To close this gap, we developed a novel longitudinal curriculum for teaching EBM to EM residents.

Educational Objectives: We aimed to develop and deliver a year long curriculum covering EM-relevant EBM topics and to evaluate resident attitudes towards EBM and knowledge in EBM concepts.

Curricular Design: We administered 11, 15-minute lectures to PGY1 - 3 EM residents (Table 1) monthly during the 2023-2024 academic year. The lecture topics included were as follows: EBM basics, critically appraising literature, research study types, sample size and power, nominal/ordinal/continuous variables, p-values/confidence intervals/t-test/chi-squared, sensitivity/specificity/PPV/NPV, NNT/NNH/odds ratios, likelihood ratios, and multivariate risk models/regression. Content was reinforced during residency journal clubs and a summary document was distributed after presentations for spaced repetition.

Table 1. Resident demographic data.

	Pre (N=32) ▾	Post (N=26) ▾	Total (N=58) ▾	p value ▾
Level of Training				0.378
PGY-1	11 (34.4%)	9 (34.6%)	20 (34.5%)	
PGY-2	11 (34.4%)	5 (19.2%)	16 (27.6%)	
PGY-3	10 (31.2%)	12 (46.2%)	22 (37.9%)	
Sex				0.789
Female	12 (38.7%)	9 (34.6%)	21 (36.8%)	
Male	19 (61.3%)	17 (65.4%)	36 (63.2%)	
Race				0.544
White	24 (75.0%)	17 (65.4%)	41 (70.7%)	
Asian	5 (15.6%)	5 (19.2%)	10 (17.2%)	
Other	2 (6.2%)	4 (15.4%)	6 (10.3%)	
Decline to answer	1 (3.1%)	0 (0.0%)	1 (1.7%)	
Ethnicity				1
Hispanic or Latino	3 (9.4%)	2 (7.7%)	5 (8.6%)	
Not Hispanic or Latino	29 (90.6%)	24 (92.3%)	53 (91.4%)	

Impact/Effectiveness: Prior to administering the curriculum, we developed a survey and quiz assessing