UC Irvine

Western Journal of Emergency Medicine: Integrating Emergency Care with Population Health

Title

Emergency Department Slit Lamp Interdisciplinary Training with Longitudinal Assessment in Medical Practice (ED SLIT LAMP) - A Preliminary Report on Physician Skill Acquisition

Permalink

https://escholarship.org/uc/item/4kw1z6qp

Journal

Western Journal of Emergency Medicine: Integrating Emergency Care with Population Health, 24(3.1)

ISSN

1936-900X

Authors

Hamou, Samara Ghiaee, Shayan Kehm, Kelly et al.

Publication Date

2023

DOI

10.5811/westjem.60935

Copyright Information

Copyright 2023 by the author(s). This work is made available under the terms of a Creative Commons Attribution License, available at https://creativecommons.org/licenses/by/4.0/

Table 1. Preliminary data from deductive analysis of interviews.

TIME Principle	Synthesized Assertion	Representative Quote
Poer Support	Students in the clerterity are expected to renigate the hidden curriculum of performing well in the clerterity for a "good grade" with what is monthly accoptable for the patients they are treating.	"And so I think that made me feel like I had to be the one responsible for oneuring that this woman were able to got harms and avoid further intimate partner violence. I really feet him I was the one who decided, like, whather she would be undergoing more violence that night."
Empowerment. Voice, and Choice	Lack of closure on such a significant event, despits several apportunities to debrief. combined to loom over the student and the student's perception of their grade.	I don't think two ever seen accordance, been there when they pronounce accordance dead. It was bind of my first experience and even then, I was still peopletry. Courseling) was like, "I was going to mach out to you anywey. We made a list of those people who came up at the actical courseling centers meating." I was fishing fine, not it seen'th like, "Whow, that's great", but it was like kind of nice for someone to be, "It's skey that you lest fine. You about for fish of the tracket mores.
Collaboration and Mulusliky	Students are expected to encounter, address, and reconcile introgenic medical complications with their team and take ownership of their actions.	The physician brought the revert up spicitlyand he said. "We rastly important that we take conversible of what happened have. I relead of fying anxier meeting accuses, we take nonmonthly and any what happened." But then he still had to go do other things, and then I wan the one who initiated mean convensation should be exceed, which their was expensive from my seems and from the attending seems, a conversation should the swent, mostly far a leasuring agreement for the the think the seems of the seems.
Trustworthinees and Transparency	Clerkship advestion lacks apportunities to destrief stout reciem rad disarimination due to the lack of swareness of sensitivity of the providers.	If think it would have been nice to have some acknowledgement because like, part of the freshribin is feeling like years the notly person who seem it this way, you know? And it's like, it would have been nice if my attending burned to me and west like, "Hay, like that was feel of problematic. I hope you dan't think that we all think that way because was don't like that hink do thing." I think it would have combineded a little bit of the desilusionment I lead towards medicine in general.
Soliety	Despita being in damaurating situations and often taxing the most untrained mambers of the care taum, abudenta can be empresent to do their best because of the bust that care- teum leadership places in them.	[If I wented to express my thoughts/prices during/star the situation,] I think I probably could have. I probably could I short insee what I would have used. I want file the situation when I fet Bin I had comothing I wanted to any, and I didn't any I. I didn't think I had snything to say, but I had Bin II the deheard enought. If think I had snything to say, but I had Bin II the deheard enought. If think I had snything to say, but I had Bin II the deheard enought. If think I had snything to say, but I had Bin II the deheard enought. If think I had snything to say, but I had been I had been I had been I had been I had snything to say, but I had been I had so the short snything the say and the sound the sound in th
Cultural, Historical, and Gender Considerations	Gender elereotypee in clarkship advastion discourage over ameticael expression by students and can finder imposter syndrome.	If think threw'n adverse that feeding, respectably like use a young fearable trainer, I feel like I kind of have to put on a brave face and not above that much smoklom I don't know. Like it's good to appear invoked in your patients, but it's not good to be like. "On, like this is the worst thing that's over lappeared, buth, kink, labih." Bocause on devicesly all these people have seen worse. So, no., I don't think that anyone would have written me a bad raview if I was showing that I was upant. But if to think it was becomed in the property impacts what pacped think of you. Like, you know, maybe she's not cut out for this field of conventions."

6 Emergency Department Slit Lamp
Interdisciplinary Training with Longitudinal
Assessment in Medical Practice (ED SLIT
LAMP) - A Preliminary Report on Physician
Skill Acquisition

Samara Hamou, Shayan Ghiaee, Kelly Kehm, Christine Chung, Xiao Chi Zhang

Background: Ocular emergencies account for up to 3% of Emergency Department (ED) visits in the US, requiring emergency physicians (EPs) to have the skills and confidence to identify and manage ocular pathology. Due to insufficient ophthalmic training during residency—and infrequent use in clinical practice—EPs report a lack of confidence in performing a slit lamp exam.

Objectives: To design an evidenced-based, simulation-based mastery learning (SBML) curriculum to empower EPs to perform a structured slit lamp exam.

Methods: EPs at a tertiary academic institution were enrolled in an SBML curriculum and evaluated using preand post-test assessment, and follow-up skill utilization. Ophthalmology and ED faculty created the curriculum and a 20-item checklist based on targeted needs assessment. Participants first completed an in-person baseline slit lamp exam at Wills Eye Hospital (WEH), then received a learning packet, instructional video, and an independent readiness assessment (IRAT). Passing the IRAT (>90%) permits the

EP to schedule in-person SBML deliberate practice and final exam at WEH. Participants must score above 90% on the final checklist and complete a 3-month follow-up survey on provider confidence and knowledge dissemination to graduate.

Results: 17 EPs enrolled, with only 17% feeling confident in performing a comprehensive slit lamp exam for ocular complaints at the start of the study. All EPs successfully completed the final exam in one attempt. There was a significant increase between pre-curriculum (11.0, 2.78) and post-curriculum (19.22, 0.78) scores; with an average increase of 8.22, p < 0.001.

Conclusions: This is the first interdisciplinary SBML pilot curriculum between the Dept. of Ophthalmology and EM that demonstrated a significant improvement in clinician skillset. Further analysis will evaluate knowledge dissemination and physician attitude in regards to ED SLIT lamp with goals of dissemination and replication by other EM programs.

7 InnovateEM: Boosting Scholarly Productivity

Latha Ganti

Introduction/Background: Scholarly activity is the cornerstone of an academic emergency medicine training program. It is well known that a positive experience with research and scholarly activity during training is directly correlated with whether one will continue in academics. For this reason, designing a curriculum that has clear milestones and easily achievable publication goals is instrumental.

Educational Objectives: 1.To instill the love of scholarly writing in trainees and faculty. 2.To boost the numbers of publications in our program.

Curricular Design: Our curriculum consists of 2 components: 1) a longitudinal didactic curriculum of 12 lectures covering study design, critical appraisal of literature, and biostatistics, and 2) a formal 3 week rotation during the PGY-2 year. At any time prior to the rotation, the resident submits a written plan for what they will do with their time during their InnovateEM block. Once approved, any pre-work such as IRB approvals or data requests are handled by the research director. Templates for different types of publications are provided. The project can focus on clinical research, case series, survey, or quality improvement. They are also required to perform five journal article reviews, to gain an appreciation of what it is like to critique another's work. Trainees also learn to write an abstract for national EM meetings. The end-goal is publication in a peer-reviewed pubmed indexed journal.

Impact/Effectiveness: The impact is tracked by the number of pubmed indexed publications, which rose exponentially in the 5 years that the program has existed, from 1 per year in the first year to more than 65 in the current year 5. (figure 1). It also impacts residents' career choice with over