

Evaluation of an Emergency Medicine Ultrasound Workshop at Des Moines University

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Introduction

With the increasing prevalence of point-of-care ultrasound (POCUS) in various medical domains, ensuring appropriate training is imperative to fully leverage the benefits of this imaging modality. Des Moines University has conducted an emergency medicine ultrasound (US) workshop for the past four years, catering to physicians, residents, healthcare professionals, and students. This study aimed to evaluate the workshop's effectiveness by assessing the responses of attendees from 2019 to 2023.

Methods

An end-of-course survey was administered at the conclusion of each live workshop to gauge the participants' reactions to the meeting and overall satisfaction. The survey encompassed various aspects of the emergency medicine US workshop, including facilitator quality, teaching methods' efficacy, and safety measures understanding. The survey was evaluated based on five-point Likert scale options.

Results



Figure 1. Bar graph of the continuing medical education Likert survey from the emergency medicine ultrasound (EM US) workshop asking about the quality of facilitators during years 2019, 2022, and 2023. Percentage of respondents is shown at the top of each bar for the particular year.

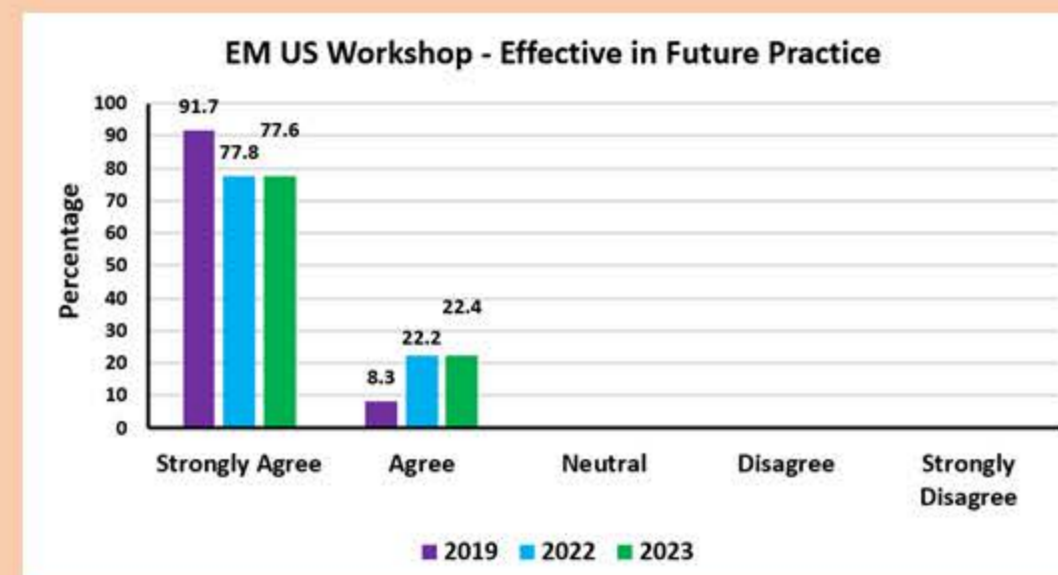


Figure 3. Bar graph of the continuing medical education Likert survey from the emergency medicine ultrasound (EM US) workshop asking about effectiveness in future practice during years 2019, 2022, and 2023. Percentage of respondents is shown at the top of each bar for the particular year.



Figure 2. Bar graph of the continuing medical education Likert survey from the emergency medicine ultrasound (EM US) workshop asking about facilitators teaching effectiveness during years 2019, 2022, and 2023. Percentage of respondents is shown at the top of each bar for the particular year.

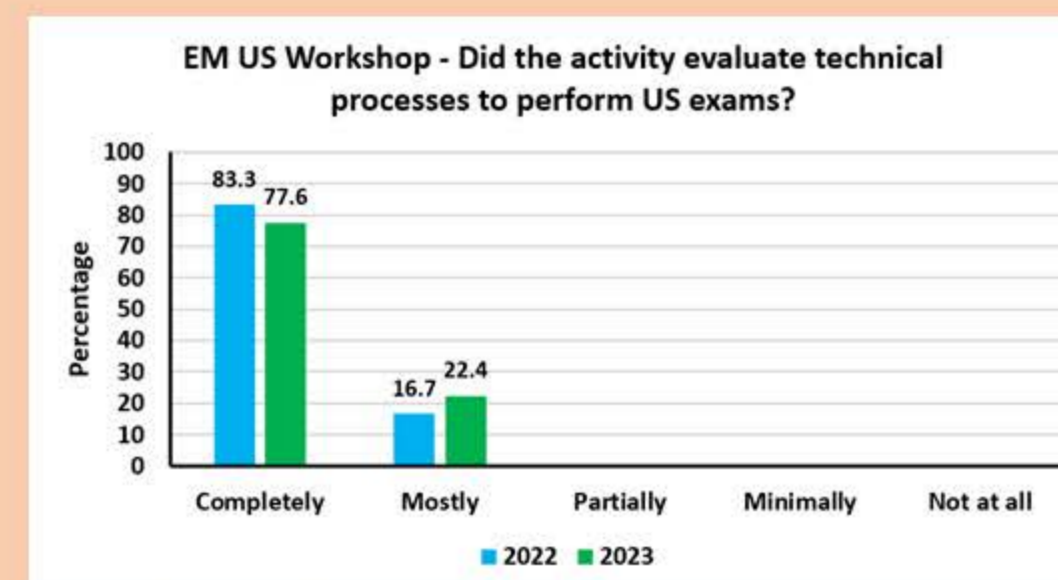


Figure 4. Bar graph of the continuing medical education Likert survey from the emergency medicine ultrasound (EM US) workshop asking about evaluation of the process to perform US during years 2022 and 2023. Percentage of respondents is shown at the top of each bar for the particular year.

Conclusions

- Consistent positive responses from emergency medicine conference attendees across 2019-2023.
- All participants rated the facilitators' quality, appropriateness for future practice, and identification of relevant anatomy as either "excellent" or "very good".
- **This multi-year analysis substantiates the workshop's consistent effectiveness in meeting and surpassing educational objectives.**
- Des Moines University's emergency medicine ultrasound workshop has **demonstrated a substantial positive influence on physicians, residents, healthcare professionals, and students over its four-year duration.**
- There is a critical role of comprehensive training in fostering proficiency in ultrasound operation, interpretation, and diagnostic decision-making, portraying the workshop as a highly valuable and positively impactful educational experience for all participants.

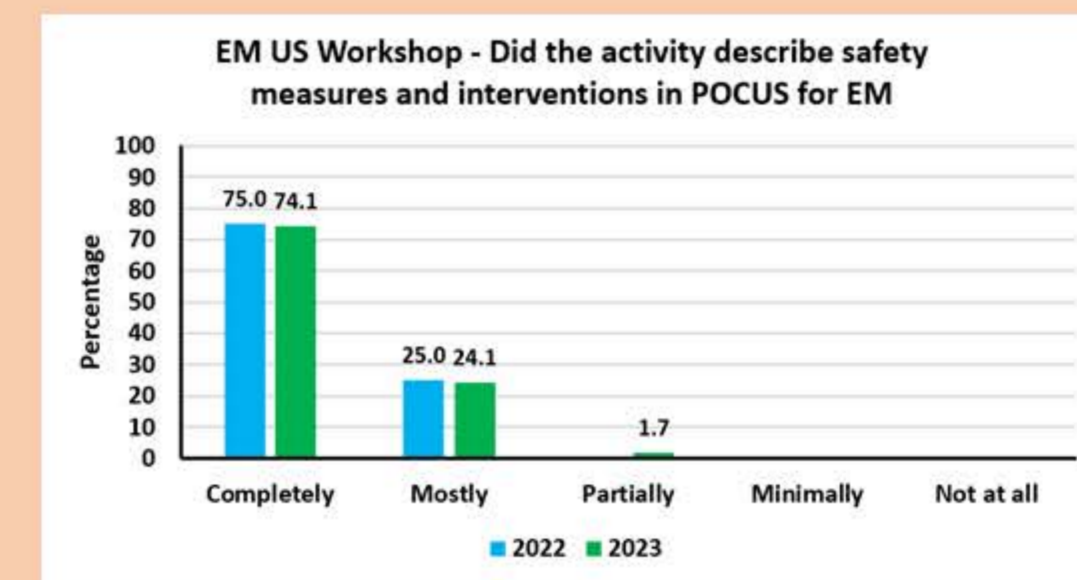


Figure 5. Bar graph of the continuing medical education Likert survey from the emergency medicine ultrasound (EM US) workshop asking about describing safety measures and interventions in point-of-care ultrasound (POCUS) during years 2022 and 2023. Percentage of respondents is shown at the top of each bar for the particular year.