



ALLIANCE OF INDEPENDENT
ACADEMIC MEDICAL CENTERS
Innovation Award Application Form

Institution Name: OhioHealth
City, State: Columbus, Ohio
Web Site: <https://www.ohiohealth.com/medical-education>
Institution Contact: Sara Sukalich, MD, MEd
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1. Describe how the nominee has developed and/or implemented *innovative approaches to medical education and/or research* by completing the following Innovation Abstract. Please limit to 500 words):

a. Title

Resident Escape Room to Promote Quality and Patient Safety Concepts

b. Contributors/Authors

Gary Duncan, MD; Ryan K Brinn, MD; Zach Baird, DO; Joel Shaw, MD; Brad D Gable, MD, MS, FACEP

c. Introduction/Background

Escape rooms have been widely used in nursing, pharmacy, and to a lesser degree resident education. The use of escape rooms to deliver patient safety and quality improvement education has been less widely reported. As a new generation becomes the primary population of medical residents, growth of hands-on experiential learning, like escape rooms, will be needed to match learner needs. Here we describe an escape room to teach residents and fellows the concepts of quality improvement and patient safety.

d. Significance

Improving patient safety in healthcare remains one of the largest opportunities for improving patient care. Not only are residencies uniquely positioned to deliver this education, but also are required by the Accreditation Council for Graduate Medical Education (ACGME).

e. Methodology/Innovation Development and Evaluation

In groups of 3-4, learners from all OhioHealth residency and fellowship programs completed the nine puzzle escape rooms over a 15-minute period. Upon completion, a 15-minute group debrief clarified learning points from each puzzle. Following the debrief, learners responded to a standard Return on Investment in Learning questionnaire.

f. Outcomes/Impact

A total of 307 of our 409 residents and fellows completed the escape room education (75.1%). Learners' self-reported confidence increased (agree/strongly agree) in their ability to: describe key aspects of quality improvement (94%), explain important aspects of patient safety (96.5%), demonstrate the event reporting process for patient safety events (96.2%). In addition, we continue to collect data to measure learners' application of the knowledge they gained. Finally, we have seen a 100% increase in the number of events reported by residents at one of our care sites, and data collection is ongoing for the others. The total cost of materials for the escape room was \$94.75.

g. Discussion/Conclusions

The gamification of quality and safety education using an escape room format was well liked by learners. Residents/fellows reported increased confidence and understanding of quality and safety concepts, as well as how to report potential adverse events. The escape room was a cost-effective and enjoyable means of providing this experiential learning. Not only is an escape room an effective method for teaching quality improvement and patient safety concepts, but also improves resident event reporting.

2. Has the nominee received national recognition for this specific project/submission?

Yes No

If yes, please describe:

3. Please describe how this work might be scale-able and disseminated to other AIAMC members and the GME learning community.

Our quality improvement and patient safety escape room covered broad educational concepts that are required to be taught in residencies and fellowships. In addition, the model we used with 9 puzzles that were each self-contained in standard 8.5x11" folders made our escape room portable and could be taken to our multiple care sites our around healthcare system. To that end, we were able to make multiple identical escape rooms so that learners could participate simultaneously in the education. This escape room model is a low-cost high-yield method for teaching quality improvement and patient safety, and has yielded improved event reporting at our institution. This method could easily be reproduced at other institutions.

4. If chosen for this award, will the nominee be present at the AIAMC 2022 Annual Meeting to be held March 24th – 26th at the Loews New Orleans Hotel in New Orleans, Louisiana? The award will be presented at the March 25th Awards Dinner. *(Please note the institution should ideally be represented by its CEO & CAO)*

Yes No Not Sure Due to Travel Restrictions