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14 Does Utilizing the New Innovations Mobile Application Shortcut Increase Compliance?

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Background: Logging procedures is an integral part of resident training and evaluation but it can be burdensome. Providing residents with a quick and easy way of logging their procedures may improve overall compliance.

Objectives: We hypothesized that providing residents with a mandatory training session on the use of a shortcut for logging procedures on their smartphones would increase compliance with logging procedures.

Methods: We evaluated the procedure logging trends of residents enrolled in a three year residency program (total number of residents = 25). Weekly procedure logging was evaluated the last week of each month for three months. The first interval was a "baseline" week prior to any interventions, the second interval was a week following a "reminder email" from the chief residents about the importance of logging procedures, and the third interval was after a mandatory "training session" on the smartphone shortcut. The training session was a 10-minute demonstration held during our mandatory weekly conference during which all residents were asked to install the New Innovations shortcut on their smartphones. The total number of procedures logged by residents and the percent of residents who logged procedures during each time interval was calculated, as were differences and 95% confidence intervals (CI).

Results: During the "baseline" week, 81 procedures were logged by 47% (CI: 27, 67) of the residents. During the "reminder email" week, 137 procedures were logged by 76% (CI: 59, 96) of the residents. During the "training session" week, 115 procedures were logged by 76% (CI: 59, 93) of the residents. See Figures 1-2. While the "reminder email" significantly increased the percent of residents logging procedures, the mandatory training session did not appear to have an impact on the logging compliance.

Conclusions: Despite its' seeming attractiveness, we found no additional benefit in procedure logging compliance with the New Innovations mobile shortcut.

Percent of Residents Logging Procedures

Weekly Procedures Logged
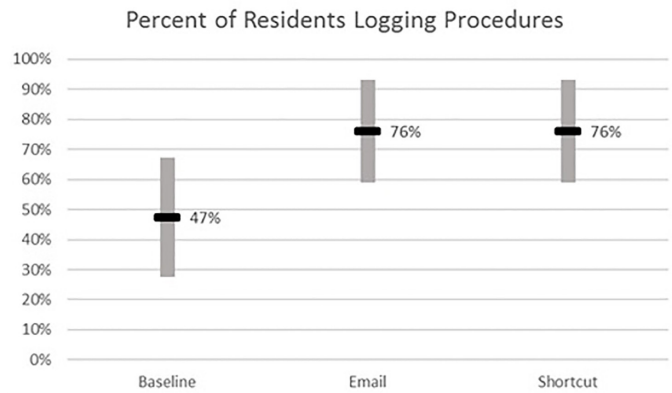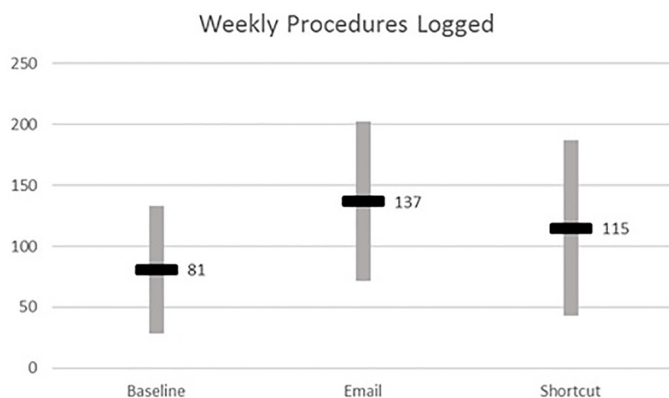
15 E-learning in the Emergency Medicine Clerkship: Implementation of iPads and the Impact on Student Learning

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Background: Learning outcomes rather than processes of education are emphasized in competency-based curricula. This allows for flexibility when implementing new methods of teaching, in particular, e-learning, which encompasses the use of personal tablet devices. Available literature, although limited, indicates that e-learning is as effective as traditional teaching methods, with the potential benefit of improving learner satisfaction and learning effectiveness. Given the established benefits of e-learning combined with the problems of reduced faculty time for teaching and below-average National Board of Medical Examiners Emergency Medicine Advanced Clinical Exam (NBME EM ACE) scores, our EM clerkship transitioned to a paperless clerkship utilizing the iPad tablet device.

Objectives: The primary purpose of this study was to determine whether the use of iPads as an e-learning platform increased medical student knowledge gains as measured by NBME EM ACE performance. The secondary purpose was to assess student satisfaction. We hypothesized that, having access to the iPad would enable students to be more efficient and effective learners, thus increasing medical knowledge and satisfaction.

Methods: 102 EM clerkship students were assigned an iPad for the duration of their rotation. Clerkship iPads were customized with an internally-created iTunes University (iTunesU) course and other relevant medical applications, textbooks and bookmarks. All iPads were identical in appearance, set-up, and available resources. Frequency of iPad use was tracked using the free application, Moment. Following the rotation, students completed a survey regarding their iPad usage. Students' NBME exam performance and frequency of iPad usage were linked to survey responses.