**Title:** Empowering Residents to Initiate Real-Time Evaluations Using Smartphones.

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**Objectives:** Our objective was to design and test a smartphone based evaluation system that would improve completion rates as well as be more valuable to staff and residents in a training program.

**Abstract:** The ACGME requires residency programs to formally assess residents on knowledge, skills and attitudes related to 6 core competencies and 22 sub-competencies. Assessments are used for self-assessment and determining resident progress on key milestones. In our large internal medicine residency program (N = 171 residents), 1444 resident evaluations were auto-generated over a 6-month period (7/1/15-12/31/15). A total of 758 were returned.

An innovative smartphone web app was designed, allowing residents to request immediate real-time evaluations on their smartphones. The web app allows faculty to evaluate residents in any of the 22 sub-competencies, as well as provide verbal or written comments. On completion of the evaluation, confirmation emails would be sent to the evaluator, resident and program.

Ten residents from PGY 1 through 3 were chosen randomly out of 171 available residents. Residents were allowed to generate evaluation requests on their smartphones in both the outpatient as well as inpatient setting.

During the pilot, 10 residents were able to obtain 44 evaluations from 26 unique evaluators over a 15-week period. Residents reported three instances of the real-time evaluation being deferred, achieving a net acquisition rate of 93.6% and a 100% completion rate. Feedback from faculty (N = 18) and residents (N = 10) surveyed revealed that a 100% found the interface intuitive to navigate. 65% of faculty and 80% of residents preferred the resident-initiated real-time evaluations to the standard auto-generated evaluations delivered to their e-mail inboxes. Additionally, 59% of faculty acknowledged that their real-time feedback was a more accurate assessment of residents’ performance.

A resident-driven, real-time, mobile-centered evaluation innovation may be the solution to improving evaluation completion rates and providing better and more insightful feedback to residents. As competencies such as practice-based learning and improvement call for residents to seek out and utilize feedback to enhance performance, this innovation is doubly beneficial.