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discussion of the “Swiss cheese model” of error causation and continue with a review of key terms, such as active failures and latent conditions. E-mails also include questions for faculty to incorporate on rounds, a brief video from the IHI Open School, a germane report (eg, feedback from a safety event investigation) from the children’s hospital quality team, and links to additional resources.

QI-on-the-Fly modules took approximately 2 to 4 hours to create (case examples are available from the authors). Bimonthly surveys were distributed to the residents and students on the inpatient teams to gauge their perceptions of whether PS/QI topics were being discussed on rounds. We also followed select AHRQ Patient Safety Culture Survey items, including (1) “residents will freely speak up if they see something that may negatively affect patient care”; (2) “when an event is reported, it feels like the person is being written up, not the problem”; and (3) “we are given feedback about changes put into place based on event reports.”

Outcomes to Date

Survey results showed that following implementation of QI-on-the-Fly, residents have become more active participants in PS/QI discussions, and that these discussions are taking place 76% of the time on rounds. Responsibility for facilitating PS/QI discussions became more broadly owned, as evidenced by physician assistants and upper-level residents leading QI-on-the-Fly discussions with multidisciplinary teaching teams. There has been sustained improvement in responses to AHRQ survey questions over time, suggesting the perception that the “safety culture” has improved (FIGURE). This perception is supported by increased physician engagement in reporting and responding to safety events. There has been a nearly 4-fold increase in event reporting by faculty and residents at the children’s hospital. Resident reporting of patient safety events increased from 5% of 36 total events reported in April 2014 to 25% of 59 total events reported. There was also an increase in the total number of entered patient safety events. This resulted in an increased number of root cause analyses and rapid cycle improvements. Residents participated in 78% of these events, whereas there was no resident involvement previously.

Faculty reported that the e-mail delivered model of PS/QI faculty development was easy to share with teams to ignite PS/QI learning and discussion. The ease of implementation coupled with the relatively high impact of the QI-on-the-Fly curriculum suggest that similar low-cost, low-effort programs can be replicated by other specialties and can be sustained over time.

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