Resident-sensitive quality measures

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Valorization

Relevance
The relevance of the development and implementation of resident-sensitive quality measures (RSQMs) is argued in the introduction (chapter 1) and discussion (chapter 10) of this thesis. In brief, the foundation of competency-based medical education is ensuring that the outcomes of training prepare graduates to meet the needs of populations of patients. For more than 40 years, a medical education research agenda that focuses on the relationship between training and patient outcomes has been advocated. During this time, little progress has been made in implementing such an agenda. However, research articles and perspectives pieces from the past few years are hastening work in this area. The studies presented in this thesis make important contributions to this body of work, advancing our understanding of how we may link learner outcomes and patient outcomes through developing a patient-focused approach to assessment—RSQMs. RSQMs not only provide feedback to residents about the quality of the care they provide, addressing a substantial gap in graduate medical education training, but can also serve to assess their performance at the individual level as well as at the program level (when aggregating data for several residents). To this end, RSQMs are objective measures of performance that can help balance some of the unwanted variability in performance assessment that currently exists. In particular, the findings presented in chapter 7 raise the question of whether RSQM data can, and should, inform assessment decisions that are made using the current prevailing approach to assessment, entrustable professional activities (EPAs). Other than RSQMs, EPAs are the only other patient-focused means of assessment described in the literature to date.

Medical education having a primary focus on the patient is not optional, as noted in chapter 10. Rather, it is the foundation of relevant medical education. This truth is moving toward center stage as health care systems internationally continue to strive for higher quality care for patients. However, graduate medical education has not traditionally placed focus on the patient but rather on the abilities of learners. Moving forward, education and training must be considered in the context of, and aligned with, health care delivery systems if future care is to meet societal needs. With this in mind, advances such as RSQMs will make important and necessary contributions to the future of graduate medical education and health care more broadly.

Innovation
While recent perspective papers have noted the importance of using quality measure data to determine educational outcomes, little research has been done in this area. The work of individuals who have pursued investigations in this area has tended to focus on dyads (e.g., resident and supervisor) and systems of care. However, RSQMs focus on the individual providing care. While care is ultimately provided by teams and systems, we graduate, certify,
and credential individuals. Furthermore, individualized feedback is important to driving personal improvement. Therefore, a focus on the individual is not only innovative but also critically important.

**Target Groups**

RSQMs will likely be viewed as most useful by residency program leaders who are required to assess resident performance. In the United States, these program leaders are also required by the Accreditation Council for Graduate Medical Education to provide practice feedback to residents for their use in personal quality improvement efforts. As chapter 8 illustrates, RSQMs may also have notable resonance with clinical competency committee members as a type of assessment data to inform the summative assessment decisions they make about residents.

If the traditional silos of medical education and health care delivery indeed align their foci, as chapters 1 and 10 argue is paramount, RSQMs will also find applicability among health systems leaders; quality officers in care delivery systems; quality improvement scientists; and accrediting, certifying, and credentialing bodies.

While we engaged residents in the development of RSQMs, we do not yet know what their experience is with receiving feedback using RSQMs. Hopefully, residents will find RSQMs to be beneficial to their development and improvement efforts, but their reactions to RSQMs remain a key area for future research.

Finally, patients are increasingly attentive to outcomes of care and the quality of care they receive from providers and institutions. This evolution opens the door for patients and families to take interest in RSQMs in the future.

**Schedule and Implementation**

We have successfully studied RSQMs in a local context (i.e., single institution) and have automated the reporting of a subset of the asthma RSQMs to residents in this local setting as well. An important next step is determining how residents view and interpret RSQM performance feedback when it is provided to them.

We also need to determine whether the RSQMs developed at Cincinnati Children’s Hospital Medical Center can be applied in other institutions. To explore the generalizability of RSQMs, we are currently engaging in a multisite, multicountry study funded by the National Board of Medical Examiners’ Stemmler Fund.

As noted in chapter 5, hospital medicine and general pediatrics are the most important settings to focus on for the continued development of RSQMs. We have begun developing RSQMs for
both settings. With an eye toward generalizability beyond a single institution, the development of these measures is engaging residents and faculty from across the United States.

In addition to developing RSQMs for other settings within pediatrics, we are currently developing measures for the internal medicine general medicine inpatient wards. This work will allow us to explore differences between the types and nature of RSQMs appropriate for internal medicine and for pediatrics. Looking at a second specialty will also position us to continue expanding the development of RSQMs in other specialties.

Finally, the American Board of Pediatrics (ABP) is considering a substantially increased use of EPAs to determine residents’ ability to sit for the initial certification examinations the ABP offers in general pediatrics and all pediatric subspecialties. Given the findings of chapter 7, which suggest RSQM data may be beneficial to making entrustment decisions, once further validity evidence is available, RSQMs could be useful in the ABP’s expanded use of EPAs.

Activities and Products
As noted in the previous sections, several activities are currently expanding the products of the work detailed in this thesis. The work in this thesis has also been disseminated in grand rounds presentations at Cincinnati Children’s Hospital Medical Center and other institutions. Additionally, this work was the focus of a webinar hosted by the Association for Medical Education in Europe (AMEE) in the fall of 2019 and was shared in a plenary presentation at the Association of American Medical Colleges’ Integrating Quality Conference in 2019. Furthermore, research presentations of studies contained in this thesis have been presented at the Royal College of Physicians and Surgeons of Canada’s International Conference on Residency Education in 2019, the Second World Summit on Competency-Based Medical Education at AMEE 2016, at the Pediatric Academic Societies Meeting in 2019, and at the Rogano Conference in 2016 and 2019. Presentation at several national and international conferences is also planned for 2020.

The early dissemination of RSQM work has garnered attention that has led to some of the invited presentations noted above. This work has also been discussed a few times in the past year on the KeyLIME (Key Literature in Medical Education) podcast that has a large international listenership.
References


