A proposal: publication guidelines for healthcare improvement education reports

D P Stevens, B Andersson-Gäre

The value of education reports lies in improving patient care outcomes

Educational initiatives for health professionals to improve patient care are now an imperative for academic health settings in particular and all healthcare settings in general. This area of pedagogy requires an expert in a specific field, and there is a developing literature on this topic. We propose the development of formal publication guidelines for this scholarly literature (box 1). These could contribute to its rigor and utility, and in turn, lead to better and more frequent publication of this literature in higher impact journals. Additional contributions from publication guidelines might also include improved research design and refined guidance for funding of such initiatives.

Box 1: Suggested outline of key components needed in publication guidelines for studies of education in healthcare improvement

1. Employ the draft SQUIRE guidelines for healthcare improvement research, including use of the IMRaD format
2. Underlying theory of knowledge is anchored in experiential learning
3. The introduction contains a clear statement of what needs to be improved in the institution where the educational study is being done
4. The methods reflect clarity and transparency, adequate detail, and qualitative and quantitative methods as needed for both the quality improvement initiative and the educational effort
5. The components of the context for the initiative that are unique, and the opportunities to generalise to other settings are clearly set forth
6. The results and discussion describe how the education initiative contributed to both the learner’s knowledge and the improvement in the clinical care of patients or a population

LINKING OUTCOMES IN EDUCATION AND HEALTHCARE IMPROVEMENT

We suggest that reports of education initiatives for healthcare improvement must explicitly extend their scope beyond learner-focused educational outcomes to the demonstration of improved patient care. Batalden and Davidoff have proposed that improving professionals’ learning and improving care are inevitably linked. They have advocated that healthcare needs better continual professional development to obtain continuously improved systems performance, which in turn are linked inextricably to better patient outcomes. Similarly, we argue that there is more to measurement of health professions’ education than demonstration of changes in students’ attitudes and acquisition of new knowledge, skills and competencies that are generally demonstrated by an academic examination. A parallel expectation should hold that learners can implement their learning about improvement in their care of patients. Of note, a recent critical review of scholarly publications that addressed healthcare professional education for quality improvement reported that only four of 39 scholarly educational reports could be shown to link educational and patient care outcomes.

In the current issue of Quality and Safety in Health Care, Bechtold and colleagues (see page 422) provide an example of the application of the SQUIRE guidelines to an educational intervention. Their initiative modified the traditional morbidity and mortality conference to extend to methodical analysis and improvement of systems problems by resident trainees. Importantly, they showed the impact of these changes on both the trainees’ knowledge and attitudes, and improvement in systems processes. They use the IMRaD format and reflect theory anchored in experiential learning. There was a demonstrated need for improvement in their institution. The methods are clear enough so that others could replicate what they did even though their organisational settings are unique. Importantly, they showed measured improvement in learners’ knowledge and in the care of patients.

HOW WILL WE KNOW THE GUIDELINES FOR EDUCATION REPORTS ARE AN IMPROVEMENT?

Publication guidelines will be deemed effective if they result in more and better education reports, if such reports are more frequently published in critical, high impact scholarly journals, and if such initiatives reflect more rigorous study and educational design. Such
guidelines will increase the probability of publication if these reports are sufficiently transparent to provide descriptions of validated strategies that are more easily and widely adapted. Although the adaptation of publication guidelines for research to reports of education in improvement offers new opportunities for educational scholars, they bring the additional burden for authors to show the added value for both patient care and learning. On the other hand, editors, authors and reviewers must be mindful that onerous and inflexible application of such guidelines could suppress educational innovation.

We invite comments from *Quality and Safety in Health Care* readers on the potential use and advantages, as well as drawbacks, of additional publication guidelines for studies of education in improvement. In the interim, we invite authors to use the existing SQUIRE guidelines for reporting educational initiatives in healthcare improvement, as a further “road test” of the general utility of those guidelines.

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