Medical schools provide an important service to society by creating a cadre of practitioners responsible for healthcare. It is thus important to ensure that medical education is of acceptable and consistent quality and produces practitioners who can meet society’s needs. While Australian medical schools take considerable care in selecting applicants and introducing innovative teaching methods, their programs vary substantially in both process and content. In addition, curriculum change is becoming more challenging because of intense competition for time and space in medical courses (see Box). While diversity of teaching methods and content may be desirable, it is important to ensure that the outcomes of the teaching process are of an appropriate standard, irrespective of methods. At present, there is no process to evaluate these outcomes.

A national exit examination could help monitor knowledge and skills of medical graduates. Is it time for Australia to consider it?

The need for change

Most data on standardised assessment programs come from the United States and Canada, which have had such programs for many years. These data demonstrate that an exit examination can be valid and reliable, and can correlate well with clinical skills and future performance in multiple disciplines. Such an examination can serve as a monitor of performance of individual medical schools and as a selection tool for postgraduate training programs.

A national exit examination could provide a uniform standard of assessment for all medical school graduates in Australia, as well as foreign graduates applying to work in Australia. Such an examination could assess medical school outcomes, monitor the effects of curriculum change, and provide a benchmark for new medical schools that would help medical curricula evolve to better meet society’s needs.

ABSTRACT

- Although it is commonly assumed that the quality of medical school education in Australia is uniformly high, there is no national process for assessing its outcomes.
- There is substantial variability in the content of medical school curricula, and the process of curriculum change is becoming more challenging because of intense competition for time and space in the course.
- A national exit examination could provide a uniform standard of assessment for all medical school graduates in Australia, as well as foreign graduates applying to work in Australia.
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Secondly, systematic monitoring and improvement of outcomes may be desirable, even if outcomes are acceptable, and may prevent future problems. While we recognise potential downsides to a national exit examination, we argue for such an examination as a way of monitoring outcomes to stimulate and inform further improvement.

Advantages of a national examination in Australia

Passing a national examination requires a minimum standard of performance. This standard can serve as a target for attainment, a measure for comparing outcomes between universities and for monitoring the effects of curriculum change, and a benchmark for new medical schools. A national exit examination would necessarily entail the explicit statement of professional values and expectations, a laudable process in itself.

The examination can also be used to measure the performance of overseas-trained doctors, allowing fairer assessment of these doctors. Standardisation of assessment might also facilitate the recognition of Australian-trained graduates overseas and the development of reciprocal arrangements with other countries that use standard exit examinations.

Finally, a change to the assessment process can influence curriculum change.12

The disadvantages

The main disadvantage of an exit examination is that it might lock some medical schools into merely preparing students for the examination and thus restrict their ability and willingness to explore more innovative teaching. However, innovative teaching is not an end in itself but a means to obtain better outcomes. There is no way of knowing if outcomes are improved unless they are measured.

It is important to ensure that an exit examination does not become the sole source of evaluation of students and medical schools, and thus become an inflexible tool that ignores regional and other differences. An exit examination should be designed to complement rather than replace the range of evaluation methods used by individual medical schools (including objective structured clinical examinations [OSCEs], portfolios and logbooks). The content as well as the format of the examination would need to reflect the desired outcomes. Thus, it might need to include a clinical component and might not be solely a written and/or multiple-choice examination — although data from the United States suggest that performance on the written Medical Licensing Examination correlates well with performance in structured clinical examinations.13 As it is increasingly recognised that students need to demonstrate skills (eg, problem solving) as well as knowledge, these skills must also be evaluated in the examination.

An important challenge is the need for resources to create and maintain a quality assessment tool. Are the advantages of the examination sufficient to justify its expense? The answer may lie in the observation of the founding father of the study of management, Peter Drucker, that “If you can’t measure it, you can’t manage it”. Our ability to measure outcomes of Australian medical education is currently limited.

A concern about the exit examination is its use to rank medical schools, resulting in competition between them. This concern seems surprising, as ranking of Australian universities already occurs.14

Finally, it can be argued that an exit examination is superfluous, as a range of competency examinations are already performed at the national level in specialty training programs. However, these examinations do not allow monitoring of medical school outcomes or feedback on the curricula. Furthermore, it is worth noting that, as all specialist examinations are already national, it is the individual university assessment of medical students that is out of step.

Is an exit examination the only answer?

Other ways of influencing medical school outcomes are already in place, including accreditation and the development of “ideal” curricula.3 The Australian Medical Council — the main accreditation body — sets out the principles and standards of medical education, including assessment. However, these relate more to process than to curriculum content, with the latter left to the judgement of individual medical schools.15 There are few data on whether these processes actually lead to desired outcomes.

It may be that defining the desired outcomes should be the intermediate step before an exit examination is considered. This was the strategy of the Scottish Deans’ Medical Curriculum Group, which developed an agreed set of outcomes defining qualities and abilities of graduates from any Scottish medical school.16 This was then used to provide a common approach to curriculum and assessment.

An alternative, indirect measure of medical school outcomes would be feedback from the specialty colleges on results of their examinations. However, this may be cumbersome to coordinate, and demand as many resources as a national examination.

Conclusions

While the common perception is that the general competence of Australian medical graduates is of a high standard, the unanswered question is whether it might be improved by better monitoring of the outcomes of medical student education.

With the worsening shortage of doctors and the need for appropriately trained medical graduates, the time has come to ask...
not only how many medical graduates do we need, but also what standards should they achieve? A national exit examination gives society a way to set standards for acceptable levels of competence, and to monitor and influence standards to match future needs and expectations.

There is no doubt that an exit examination is only as effective as the assessment tools it uses. However, if some of the inventiveness and attention currently dedicated to curriculum design were redirected to developing a national assessment process, it is possible that this process could reliably inform the outcomes of medical student education and serve as a platform for continuing improvement.

And if medical education is as good as we believe, what are we afraid of?

**Competing interests**

None identified.

**References**


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