

## Money and medical education

I applaud Farrah Mateen<sup>1</sup> for critiquing, among other things, the money-paved road to medical school. Fees for my med school applications this year exceeded \$1000. If I receive interviews for any of these applications, I will dry-clean my suit, take time off work, drop money for a flight, hotel, and food, and respond to questions about my lack of hobbies (sorry — I have 3 jobs and need to study frenetically because only those with the top 400 GPAs are considered). What makes the process so difficult isn't the money itself, but the fact that it is entirely a gamble. I can expend my life savings, work half a dozen jobs, study until my brain will absorb no more. I can live in a slum so that I can afford to write the MCATs, yet I would never have gotten interviews if another (wealthy) student hadn't generously lent me the (shockingly expensive) sample MCATs she bought off the Internet. I will trek to any of the 4 corners of this country if I'm blessed enough to receive a one-time 45-minute period of scrutiny (curiously, to work the line at a Toyota plant, there are no fewer than 5 interviews), but there's no guarantee that I won't just be left with large bills and no certain way of paying them off. Would the interviewers like to hear how I spent 72 hours a week in the summer mowing lawns, developing sunstroke (and potentially skin cancer) in the process, and was thrilled to get back to school because it involved sitting and only 20 hours a week of mowing? It's a truly fascinating story. What it isn't is a recipe for getting into medical school.

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### Reference

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## Beyond mythology

As quoted by Loreen Pindera,<sup>1</sup> Senator Michael Kirby is right that it is a "great myth of Canadian public life" that the Canada Health Act prohibits private delivery of health services.

Having worked in the United Kingdom (and now returning to Canada), I may have some relevant observations. The UK's National Health Service (NHS) is embracing Kirby's "provider agnosticism," making the NHS more an organizing principle than a state-owned and run health service.

New private NHS providers (including some from Canada) have targeted areas where clinical procedures can be done quickly and efficiently and where patient demand is high (and waiting times long) at prices the Department of Health is prepared to afford.

A key emerging lesson for Canada can be found in the UK priority on "public choice" and provider plurality in providing public services, which gives users greater choice in how and when they access these services — thus focusing on what the citizen-user wants, not what the service providers want. This "disruptive" idea will reshape services in the image of higher public acceptability and quality not otherwise obtainable through heavy-handed methods. It is hard to imagine a system without such incentives being worth funding in the first place.

That there is a whole Europe full of countries with high standards of care delivered in complex combinations of public and private ownership should make critics of private providers pause to reflect on the certainty of their position. The opportunities to improve health care for Canadians through a more flexible and open system will be lost unless we can move beyond the myths. Reform starts with understanding reality, not hiding from it.

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### Reference

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*Competing interests:* Dr. Tremblay conducts policy research and consultancy for governments and private companies in the health sector.

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## Kappa statistic

I would like to thank *CMAJ* and the Evidence-Based Medicine Teaching Tips Working Group for the teaching tips series, which is wonderfully useful to those of us who are teaching these basic concepts to residents and other physicians. Part 3 in the series, discussing the kappa statistic,<sup>1</sup> contained a couple of points to which I would like to contribute, on the basis of my own teaching experiences.

Whereas Thomas McGinn and associates<sup>1</sup> suggest that students construct  $2 \times 2$  tables and calculate kappa from successively higher rates of positive calls (see tip 3 in the article), I have instead given students the raw data from actual small studies (with fewer than 25 subjects) and then asked them to construct the  $2 \times 2$  table and calculate actual agreement and chance agreement using the multiplication rule.<sup>2</sup> The multiplication rule can be used to calculate joint probability if 2 different events are independent of one another. Most situations that consumers of the medical literature will encounter involve analyzing the numbers provided in various data forms and then determining whether the level of agreement is both acceptable and consistent with the data presented. Rarely will readers need to assign a level of agreement and calculate the kappa statistic. Therefore, the method described here might be valuable as another means to calculate chance agreement and kappa on the basis of more realistic values.

For example, our institution recently implemented the emergency severity index<sup>3</sup> (ESI) for nursing triage. Given a random sample of 25 patients