

## Determinants of choosing a career in family medicine

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### ABSTRACT

**Background:** Student choice is an important determinant of the distribution of specialties of practising physicians in many countries. Understanding characteristics at entry into medical school that are associated with the choice of residency in family medicine can assist medical schools in admitting an appropriate mix of students to serve the health care needs of their regions.

**Methods:** From 2002 to 2004, we collected data from students in 15 classes at 8 of 16 Canadian medical schools at entry. Surveys included questions on career choice, attitudes to practice and socio-demographic characteristics. We followed students prospectively with these data linked to their residency choice. We used multiple logistic regression analysis to identify entry characteristics that predicted a student's ultimate career choice in family medicine.

**Results:** Of 1941 eligible students in the participating classes, 1542 (79.4%) contributed data to the final analyses. The following 11 entry variables predicted whether a student named family medicine as his or her top residency choice: being older, being engaged or in a long-term relationship, not having parents with postgraduate university education nor having family or close friends practicing medicine, having undertaken voluntary work in a developing nation, not volunteering with elderly people, desire for varied scope of practice, a societal orientation, a lower interest in research, desire for short postgraduate training, and lower preference for medical versus social problems.

**Interpretation:** Demographic and attitudinal characteristics at entry into medical school predicted whether students chose a career in family medicine.

### Competing interests:

Sandra Banner is executive director and chief executive officer of the Canadian Resident Matching Service. Jim Boone is general manager and chief operating officer of the Canadian Resident Matching Service. No competing interests declared by Ian Scott, Margot Gowans, Bruce Wright and Fraser Brenneis.

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The number of physicians per capita in both Canada and the United States has declined, and this decline is expected to continue. Canada has already experienced a drop of 5.1% in the physician-to-population ratio from a peak in 2000, and in the United States a shortage of up to 200 000 physicians, or 20% of the needed workforce, is predicted to occur by 2025.<sup>1,2</sup> Combined with a growing elderly population and decreasing physician-hours,<sup>3,4</sup> this reduction in the physician-to-population ratio is expected to have implications for the health care systems of both countries. Therefore, health resource planners likely will be looking to expand the role of primary care, and of family medicine in particular.<sup>5-8</sup> To support such an expansion, a commensurate increase in the numbers of domestically trained family physicians will be required. But with as few as 25% (in 2003)<sup>9</sup> of Canadian medical graduates choosing family medicine as their top career choice in the residency match, it is unlikely the health care system will be able to supply adequate numbers of primary care physicians.

In most countries, the number and the distribution of specialties of physicians are determined

by numerous factors, including government policies, training opportunities, immigration and emigration of providers, sex and age distribution of providers, and remuneration incentives and disincentives.<sup>10-17</sup> In many medical systems, the career interests of students also have a substantial steering effect on the distribution and number of available physicians.<sup>18,19</sup>

The purpose of this study was to follow a large cohort of Canadian medical students from school entry through exit to examine how their career aspirations changed over time and to identify, using multiple logistic regression analysis, the variables at entry into medical school that predict a career choice of family medicine at graduation.

## Methods

### Study population

From 2002 through 2004, we distributed a 41-item survey to first-year students in 15 classes at 8 out of a possible 16 Canadian medical schools within two weeks of commencement of their medical studies. The study included three entry classes from the University of British Columbia (2002–2004); two each from the University of Calgary (2003–2004), the University of Toronto

(2003–2004), McMaster University (2003–2004), Queen's University (2003–2004) and the University of Western Ontario (2003–2004); and one each from the University of Alberta (2002) and the University of Ottawa (2003). This subset of Canadian medical schools was chosen by convenience sampling. We were able to sample half of the medical schools in Canada at that time because of personal contacts and interest from these schools in participating in this study. Different sampling periods occurred at different schools because some schools that started this research dropped out after one or more years. Schools that dropped out or did not participate in every year of the study were those not able to distribute surveys face-to-face during the first two weeks of classes.

### Questionnaire

Survey questions were selected based on an extensive literature review and consultation process. Verification of survey comprehensiveness and appropriateness, and subsequent pilot-

ing, were undertaken before commencement of the study; the survey tool was modified as appropriate.<sup>20</sup> The survey asked students to consider eight career options, which were emergency medicine, family medicine, internal medicine, obstetrics and gynecology, pediatrics, psychiatry, surgery and "other" (a write-in choice). Students were asked to indicate which they would consider as a possible career and to rank their top three career choices. Using a 5-point Likert scale, ranging from 1 (no influence) to 5 (major influence), students were then asked to indicate the extent to which their career interests were influenced by the 27 different items listed in Table 1. Twenty-five of these items duplicated those we reported in 2004;<sup>20</sup> an additional two items have since been identified and added to the survey tool. The survey also collected socio-demographic data.

Data collected from students at entry to medical school were linked anonymously with their top career choice as submitted to the Canadian Resident Matching Service (CaRMS) and

**Table 1:** Factors derived from analysis of survey responses related to underlying attitudinal variables

Factor	Underlying attitudinal variable	Loading*	Mean (SD)	Eigenvalue†	Cronbach $\alpha$ ‡
1. Medical lifestyle	Flexibility outside of medicine	0.802	3.65 (1.11)	3.20	0.83
	Acceptable hours of practice	0.784	3.41 (1.25)		
	Flexibility inside of medicine	0.756	3.84 (1.03)		
	Acceptable on-call schedule	0.742	3.34 (1.21)		
	Keeping options open	0.681	3.58 (1.09)		
2. Societal orientation	Health promotion important	0.692	3.63 (1.17)	2.79	0.73
	Long-term relationship with patients	0.679	3.31 (1.23)		
	Focus on patients in the community	0.681	3.32 (1.23)		
	Social commitment	0.637	3.29 (1.26)		
3. Prestige	High income potential	0.752	2.16 (1.17)	2.67	0.72
	Adequate income to eliminate debt	0.708	2.14 (1.31)		
	Status among colleagues	0.694	1.91 (1.05)		
	Stable or secure future	0.636	1.79 (1.10)		
4. Hospital orientation	Focus on urgent care	0.758	2.95 (1.25)	2.31	0.68
	Focus on in-hospital care	0.726	2.88 (1.29)		
	Results of interventions immediately available	0.679	3.08 (1.23)		
5. Scope of practice	Wide variety of patient problems	-0.701	3.61 (1.89)	1.74	-0.50§
	Narrow variety of patient problems	0.820	2.74 (1.27)		
6. Role model	Meaningful past experience with physician	0.847	2.96 (1.45)	1.71	0.59§
	Emulate a physician	0.856	2.51 (1.43)		
Items not loading into any factor	Good match to this career, interesting patient population, focus on non-urgent care, dislike for uncertainty, prefer medical to social problems, research interest, short postgraduate training				

Note: SD = standard deviation.  
 \*Loading represents the correlation between the item and overall factor.  
 †Eigenvalue measures the variance of the factor.  
 ‡Chronbach  $\alpha$  measures internal consistency of test scores, with a high  $\alpha$  indicating an underlying construct.  
 §Factors 5 and 6 have only two component items; the  $r$  value is given as  $r = \alpha$  under these conditions.

matched by an independent third party, the Canadian Post-MD Education Registry (CAPER). CaRMS is a not-for-profit organization that provides an electronic application and residency matching service to all medical students entering into postgraduate medical training positions throughout Canada.<sup>18</sup> CAPER represents a partnership of professional medical organizations and federal, provincial and territorial governments.<sup>21</sup>

### Statistical analysis

We profiled student career preferences at both entry to and exit from medical school using descriptive statistics. Demographic associations with career interest were identified using *t* tests for continuous variables and  $\chi^2$  tests for categorical variables. A principal-components factor analysis was performed to condense the 27 attitudinal career influences into a smaller number of coherent factors. Items that showed a minimum factor loading of 0.6 and factors with an eigenvalue greater than 1 were retained. We used *t* tests to identify differences in the resulting factors according to career interest.

Logistic regression was used to identify both the predictors of a career in family medicine at exit from medical school as well as predictors of a switch in career interests toward or away from family medicine during medical school. Variables identified by univariable analyses as being significantly associated with a career choice in family medicine at medical school exit were entered into stepwise logistic regression analyses, with choosing family medicine or switching career interests as dichotomous outcome variables. We considered *p* values less than or equal to 0.05 to be significant.

This research was approved by the research ethics board of the University of British Columbia.

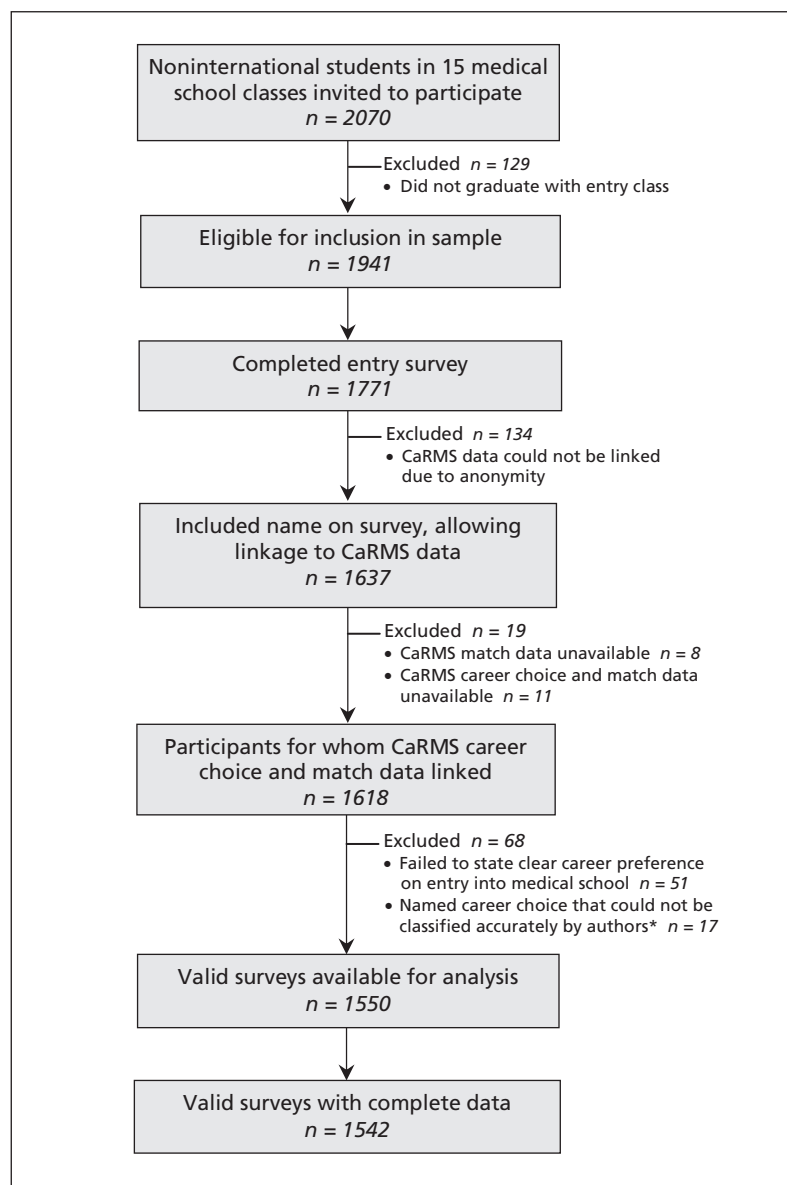
### Results

There were 2070 students in the 15 participating classes, with 1542 of these students contributing to the final analysis (Figure 1). The career choices of students who responded to our survey did not differ significantly from those of the national cohort of students graduating from medical school over the same time frame (*p* = 0.90) (Table 2).

Of the 481 students who named family medicine as their top choice of career on exit from medical school, 250 (52.0%) had named family medicine as their preferred career choice on entry, and 411 (85.4%) had named it as one of their top three choices on entry to medical school. By contrast, of the 1061 students who named a career other than family medicine as their top choice on exit from medical school, 165

(15.6%) had named family medicine as their preferred option on entry, and 549 (51.7%) had included family medicine as one of their top three choices on entry.

When factor analysis was carried out on the 27 attitudinal variables influencing career choice, six factors containing 20 of these variables were identified. The factors were named by the authors according to their component variables (Table 1). Four of the factors (medical lifestyle, societal orientation, varied scope of practice and hospital orientation) comprised the same underlying variables as identified by earlier analyses.<sup>20</sup> Compared with earlier analyses, the fifth factor (prestige) contained one additional variable, which was “stable or secure



**Figure 1: Recruitment and follow-up of cohort.** \*For example, sports medicine could be classified as either family medicine or orthopedics. CaRMS = Canadian Resident Matching Service.

future.”<sup>20</sup> A sixth factor, “role model,” was newly identified in this study. Whereas positive correlations existed between a career choice in family medicine and the factors of medical lifestyle ( $r = 0.11$ ), societal orientation ( $r = 0.25$ ) and varied scope of practice ( $r = 0.26$ ), negative correlations existed between a career choice in family medicine and prestige ( $r = -0.11$ ) and hospital orientation ( $r = -0.18$ ). The factor “role model” was not associated with career choice. Together the six factors collectively explained 53.4% of variance in the responses. Seven items failed to load on any of the factors and were included as separate variables in the subsequent analyses.

Univariable analysis found five of these six factors, as well as several demographic variables, to have significant associations with career choice on exit from medical school (Table 3).

Logistic regression analysis that did not include stated career interest in family medicine on entry into medical school identified 11 variables that predicted a career choice in family medicine on exit (Table 4). When a student’s stated career interest in family medicine on entry into medical school was included in the model, this variable was the strongest predictor of a career choice in family medicine on exit. In this model, two items that were significant predictors in the model that omitted career choice on entry (a higher degree of social orientation and a desire for short postgraduate training) were no longer independent predictors of a career choice in family medicine on exit (Table 4).

Variables predicting a switch in career choice toward family medicine between entry into and exit from medical school are shown in Table 5.

Students who switched to family medicine at exit from medical school ( $n = 231$ ) did so predominantly from internal medicine ( $n = 64$ , 27.7%) and pediatrics ( $n = 60$ , 26.0%).

Variables predicting a switch in career choice away from family medicine between entry into and exit from medical school are shown in Table 6. Students who switched from family medicine on entry into medical school ( $n = 165$ ) were most likely to switch into internal medicine ( $n = 55$ , 33.3%) on exit.

## Interpretation

If primary care is going to be central to future reforms and renewals of health care systems,<sup>3,6,8,9</sup> countries embarking on these renewals will need sufficient numbers of family physicians. Given that student career choice is an important determinant of human resources in health care, an understanding of the variables present on entry into medical school that are associated with a subsequent choice of career in family medicine could allow for preferential selection of students who are likely to meet the health needs of the population.

In our study, having family medicine as a career choice on entry was the most important predictor of a student’s ultimate career choice. There may be value in a determination by admissions committees of a student’s early commitment to family medicine if they wish to increase the number of family physicians that their schools produce. A downside of asking this question at admission is that such a scenario can be “gamed” by students once applicants become aware of the desired answers to this question. By removing career interest on medical school entry from our model, we were able to retain nearly the same accuracy (only 2.6% lower) with 11 significant predictive items. Whereas demographic factors such as age and relationship status would be considered inappropriate to ask a student in many jurisdictions, a number of the other items, particularly the attitudinal items, could be used by admissions committees to identify students more likely to choose a career in family medicine.

In our study, interest in family medicine increased during the course of medical school, with switchers to family medicine accounting for 48.0% ( $n = 231$ ) of the group of students applying for a family medicine residency. Students who switched to family medicine from a specialty career during medical school showed several differences from those who maintained an interest in a career not in family medicine, and shared more than half of the variables we evaluated with those who stayed with a career

**Table 2:** Career choices of survey sample compared with those in Canadian Resident Matching Service (CaRMS) national dataset (match years 2006–2007)

Specialty	Students in study, no. (%)	CaRMS dataset, no. (%)
Family medicine	481 (31.2)	1852 (30.5)
Internal medicine	309 (20.0)	1223 (20.1)
Surgery	285 (18.5)	1089 (17.9)
Pediatrics	91 (5.9)	373 (6.1)
Psychiatry	82 (5.3)	315 (5.2)
Obstetrics and gynecology	75 (4.9)	286 (4.7)
Emergency medicine	47 (3.0)	177 (2.9)
Other*	172 (11.2)	755 (12.4)
Total	1542 (100.0)	6070 (100.0)

\*Comprises radiology, community medicine, laboratory medicine and anesthesia.

in family medicine. These findings support the notion of an underlying family medicine construct carried by entering medical students. Students who do not have family medicine as their top career choice but who have these attributes may be targeted by educators who wish to encourage students to switch to a career in family medicine. Students who switched from family medicine to a specialty career shared attributes with those students who stayed with a specialty career throughout medical school.

As with other studies, we found a stated preference for family medicine at medical school entry to be a strong predictor of an exit career choice in family medicine,<sup>14,22</sup> but unlike other

studies, we did not find this interest in primary care to wane after medical school admission.<sup>23-25</sup>

Some of the predictive variables we identified in our study have been described elsewhere, though the reported effects sometimes conflict. These include age,<sup>13</sup> marital status,<sup>13</sup> having a societal orientation and volunteering in a developing country.<sup>14,26</sup> Rural origin, which has been shown by others to be predictive,<sup>27,28</sup> was not associated with a career choice of family medicine in our study; however, it was associated with a decreased likelihood of switching career interests away from family medicine during medical school. As in our study, scope of practice has been shown in some studies to draw stu-

**Table 3:** Associations between demographic and attitudinal variables and career choice of family medicine at exit from medical school

Variable	Family medicine <i>n</i> = 481	Specialty medicine <i>n</i> = 1061	<i>p</i> value
<b>Demographic characteristic</b>			
Age, yr, mean (SD)	24.9 (4.10)	23.7 (2.81)	< 0.001
Sex, male, %	34.9	45.5	< 0.001
Relationship status, single %	61.5	75.2	< 0.001
Premedical education, postgraduate, %	18.1	18.1	0.997
Parental education, either parent has postgraduate degree, %	37.0	48.0	< 0.001
Family or friends in family medicine, %	21.8	20.1	0.430
Family or friends in any field of medicine, %	33.5	41.5	0.003
Hometown population < 50 000, %	28.1	18.6	< 0.001
Rural childhood, resided in rural area for > 50% of childhood, %	28.3	18.9	< 0.001
Parents in rural community, %	30.1	20.2	< 0.001
Volunteer work with the elderly, %	43.2	49.1	0.033
Volunteer work in developing nation, %	27.7	17.4	< 0.001
<b>Attitudinal factor, mean (SD)*</b>			
Factor 1: Medical lifestyle	3.72 (0.82)	3.50 (0.90)	< 0.001
Factor 2: Societal orientation	3.74 (0.84)	3.24 (0.89)	< 0.001
Factor 3: Prestige	1.86 (0.79)	2.06 (0.88)	< 0.001
Factor 4: Hospital orientation	2.72 (0.90)	3.09 (0.99)	< 0.001
Factor 5: Varied scope of practice†	3.85 (0.94)	3.25 (1.06)	< 0.001
Factor 6: Role model	2.69 (1.23)	2.76 (1.30)	0.278
<b>Attitudinal items not loading into any factor, mean (SD)‡</b>			
Good match to this career	2.09 (1.20)	2.22 (1.34)	0.046
Interesting patient population	4.35 (0.80)	4.23 (0.90)	0.015
Focus on non-urgent care	2.84 (1.13)	2.59 (1.14)	< 0.001
Dislike of uncertainty	2.02 (1.01)	2.21 (1.10)	0.001
Prefer medical to social problems	2.12 (1.19)	2.74 (1.38)	< 0.001
Research interests	1.95 (1.16)	2.58 (1.43)	< 0.001
Short postgraduate training	2.26 (1.24)	1.74 (1.06)	< 0.001

\*Values shown for attitudinal factors 1–4 and 6 are the means of component item scores.

†Because of inverse association between the two component items of factor 5 (i.e., wide-to-narrow variety of patient problems), the item “narrow variety of patient problems” was transposed before calculation of the mean, producing a factor that reflected a varied scope of practice.

‡Values for attitudinal items were scored on a 5-point scale, with higher scores indicating a greater influence on career choice.

dents toward family medicine,<sup>29</sup> but others have shown it to lead students to reject family medicine.<sup>30</sup> In contrast to other studies,<sup>13,14,31</sup> the student's sex was not found to be a significant predictor in our model. This may be due to the increasing number of women in medical school.

Our study on career interest at exit from medical school built on a previous study<sup>20</sup> that identified predictors of a student's career interest at medical school entry. We found that most variables were represented in both studies, given that they were derived from the same survey answers obtained from students on entry into medical school. Since each of these studies used a different outcome variable (i.e., career choice on entry into medical school versus career choice on exit), certain items not previously identified became important when looking at a student's ultimate career choice. Rela-

tionships, volunteer work in developing nations and parental education endured as predictors throughout the process of medical education. Age, varied scope of practice and a strong societal orientation, while remaining predictive of a career interest in family medicine, were less important influences on final career choice than on entry choice, indicating that the experience of medical school may have lessened the influence of these items. A low interest in hospital care, interest in medical lifestyle and having completed high school in a smaller community were no longer significant predictors of career choice on exit from medical school.

### Limitations

Although the survey underwent a thorough development and validation process, other important influences may have been overlooked.

**Table 4:** Multivariable logistic regression analysis of factors found to be significantly associated with a career choice in family medicine on exit from medical school

Variable	Students who selected family medicine as residency choice	Crude OR (95% CI)	Adjusted OR, excluding entry career choice (95% CI)	Adjusted OR, including entry career choice (95% CI)
Entry career choice of family medicine, no. (%)				
No	231 (20.5)	1.0†	–	1.0†
Yes	250 (60.2)	5.88 (4.60–7.50)	–	2.37 (1.68–3.34)
Age, yr, mean (SD)*	24.9 (4.1)	1.11 (1.07–1.15)	1.06 (1.03–1.11)	1.06 (1.01–1.10)
Relationship status, no. (%)				
Single	296 (27.1)	1.0†	1.0†	1.0†
Engaged or long-term	185 (41.3)	1.90 (1.51–2.39)	1.42 (1.08–1.87)	1.46 (1.10–1.93)
Parental education, no. (%)				
< postgraduate	303 (35.4)	1.0†	1.0†	1.0†
Postgraduate	178 (25.9)	0.64 (0.51–0.80)	0.74 (0.57–0.96)	0.76 (0.58–0.98)
Relative or friend in medicine, no. (%)				
No	320 (34.0)	1.0†	1.0†	1.0†
Yes	161 (26.8)	0.71 (0.57–0.89)	0.74 (0.56–0.96)	0.73 (0.56–0.97)
Volunteer with elderly people, no. (%)				
No	273 (33.6)	1.0†	1.0†	1.0†
Yes	208 (28.5)	0.79 (0.64–0.98)	0.77 (0.60–0.98)	0.77 (0.60–0.99)
Volunteer in developing nation, no. (%)				
No	348 (28.4)	1.0†	1.0†	1.0†
Yes	133 (41.8)	1.81 (1.40–2.34)	1.59 (1.12–2.13)	1.62 (1.20–2.17)
Factor 2: Societal orientation, mean (SD)*	3.4 (0.9)	1.93 (1.69–2.20)	1.33 (1.12–1.58)	1.18 (0.96–1.41)
Factor 5: Varied scope of practice, mean (SD)*	3.8 (0.9)	1.80 (1.60–2.01)	1.40 (1.23–1.60)	1.24 (1.08–1.43)
Item P: Prefer medical to social problems, mean (SD)*	2.1 (1.2)	0.70 (0.64–0.76)	0.84 (0.75–0.94)	0.84 (0.75–0.94)
Item R: Research interests, mean (SD)*	2.0 (1.2)	0.70 (0.64–0.76)	0.77 (0.70–0.85)	0.80 (0.72–0.88)
Item AA: Short postgraduate training, mean (SD)*	1.9 (1.1)	1.46 (1.33–1.60)	1.21 (1.08–1.35)	1.11 (0.99–1.25)
Note: CI = confidence interval, OR = odds ratio, SD = standard deviation.				
*For continuous variables, each unit increase (i.e., year of age or unit on Likert scale) is associated with the stated increase in the odds ratio.				
†Reference category.				

Not all regions of Canada were surveyed in this study; therefore, it was not fully representative of the career choices of all Canadian students. Lack of representation from the Maritimes and, particularly, from Quebec, given its unique structure of human resources in health care, may have

resulted in important associations being missed. Still, students in our study chose their careers in the same proportions as all students nationally, showing the generalizability of our cohort findings. In addition, given the nature and structure of primary care in Canada and the role of family

**Table 5:** Multivariable logistic regression analysis of factors found to be significantly associated with switching career choice toward family medicine at exit from medical school from another career choice on entry into medical school

Variable	Students who switched career choice to family medicine	Crude odds ratio (95% CI)	Adjusted odds ratio (95% CI)
Family medicine one of top three entry career choices, no. (%)			
No	70 (12.0)	1.0†	1.0†
Yes	161 (29.5)	3.07 (2.25–4.18)	2.22 (1.57–3.13)
Relationship status, no. (%)			
Single	146 (17.6)	1.0†	1.0†
Engaged or long-term	85 (28.7)	1.89 (1.39–2.57)	1.70 (1.19–2.41)
Volunteer in developing nation, no. (%)			
No	168 (18.4)	1.0†	1.0†
Yes	63 (29.6)	1.87 (1.33–2.62)	1.69 (1.16–2.45)
Factor 5: Varied scope of practice, mean (SD)*	3.4 (1.0)	1.35 (1.17–1.55)	1.25 (1.06–1.46)
Item P: Prefer medical to social problems, mean (SD)*	2.4 (1.3)	0.78 (0.70–0.86)	0.86 (0.75–0.98)
Item R: Research interests, mean (SD)*	2.2 (1.3)	0.79 (0.71–0.88)	0.84 (0.74–0.95)
Item AA: Short postgraduate training, mean (SD)*	1.8 (1.0)	1.30 (1.13–1.50)	1.21 (1.02–1.43)
Note: CI = confidence interval, SD = standard deviation. *For continuous variables, each unit increase (i.e., year of age or unit on a Likert scale) is associated with the stated increase in the odds ratio. †Reference category.			

**Table 6:** Multivariable logistic regression analysis of factors associated with switching career choice from family medicine on entry into medical school to another career choice at exit from medical school

Factor	Students who switched career choice from family medicine	Crude odds ratio (95% CI)	Adjusted odds ratio (95% CI)
Age, yr, mean (SD)*	24.1 (3.2)	0.91 (0.86–0.96)	0.92 (0.86–0.98)
Size of community where schooling completed, no. (%)			
≥ 50 000	128 (44.1)	1.0†	1.0†
< 50 000	37 (29.6)	0.53 (0.34–0.83)	0.46 (0.23–0.92)
Relative or friend in medicine, no. (%)			
No	95 (35.7)	1.0†	1.0†
Yes	70 (47.0)	1.60 (1.06–2.40)	1.62 (1.03–2.55)
Item R: Research interests, mean (SD)*	1.9 (1.2)	1.23 (1.02–1.47)	1.24 (1.01–1.51)
Note: CI = confidence interval, SD = standard deviation. *For continuous variables, each unit increase (i.e., year of age or unit on a Likert scale) is associated with the stated increase in the odds ratio. †Reference category.			

physicians, the findings may not be directly applicable to other countries. However, given the rapid globalization of all aspects of society, including medicine, our findings (which had a high predictive value and were difficult to manipulate by applicants) provide a window into the student attitudes and demographics at medical school entry that are associated with an ultimate career choice in family medicine. Although student attitudes during the first two weeks of medical school may differ from attitudes at the time of application to medical school, it would be expected that many of the variables in this model would be unchanged and could be tested at the time of application.

### Conclusion

Our study looked at the variables associated with the choice of a career in family medicine at exit from medical school. We can infer from our results that these variables, which we assessed at the second week of medical school, would be similarly predictive if assessed at the time of admissions interviews; but we do not know this, so it would be important to study this similarity directly. We would encourage schools with an interest in increasing the proportion of students choosing a career in family medicine to integrate some or all of the variables identified in our study into their student selection processes.

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