An update on finances and financial support for medical students in Yong Loo Lin School of Medicine

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INTRODUCTION Increasing financial challenges have resulted in great debt among medical graduates worldwide. In Singapore, more scholarships and bursaries have been disbursed in recent years to support students who are financially challenged. We aimed to study the financial status of medical students in National University of Singapore (NUS) Yong Loo Lin School of Medicine (i.e. NUS Medicine), Singapore, and the financial support available to them.

METHODS A cross-sectional quantitative study was performed. Surveys were distributed and completed by medical students of NUS Medicine. Information regarding household income, financial assistance, monthly allowance and expense, and concurrent occupations was collected. We compared our findings with the results of a similar study performed in 2007 and national income data.

RESULTS A total of 956 (66.2%) out of 1,445 medical students completed the survey. 19.5% and 58.5% of respondents came from households with monthly incomes < SGD 3,000 and > SGD 7,000, respectively. 20.6% of students had loans, 18.9% had scholarships and bursaries, and 14.4% worked to support themselves.

CONCLUSION Medical school fees have risen by more than 50% over the past ten years. Our study found that there were increases in the proportion of students from both the lower- and higher-income segments, with proportionally fewer students from the middle-income segment. A large number of students were working and/or had some form of financial support. More should be done to meet the needs of financially challenged medical students to ensure equal access to quality medical education.

Keywords: education cost, financial assistance, medical education, medical student, tuition fees

INTRODUCTION

Determining the true cost of a university medical education is complex.⁽¹⁾ From the medical student's perspective, the cost includes medical school tuition fees, textbook and instrument costs, as well as transportation and other costs of daily living. Globally, medical school tuition fees vary greatly. In some European countries, medical students pay minimal or no tuition fees.⁽²⁾ However, in most parts of the world, tuition fees for a medical education are much higher compared to those of other undergraduate and graduate programmes. In the United States (US), the annual tuition fees in private medical schools often exceed USD 40,000 per student.⁽³⁾ High tuition fees may have deterred certain disadvantaged groups from entering medical school despite their potential to contribute to society and academia.⁽⁴⁾ High fees are also reported in some settings, affecting career choices and postgraduate community involvement,(4-7) and causing most medical students to depend on external sources to finance their medical education.⁽⁸⁾ With rising tuition fees and general costs of living, the rate of increase of debts incurred by medical students has far exceeded the inflation rate in many countries.⁽⁹⁾ In the US, for instance, 87% of students who graduated from medical school in 2008 carried some form of debt.(10)

In Singapore, medical school tuition fees have been increasing rapidly in the last decade. The teaching grant provided by the Singapore government under the Medical/Dental Undergraduate Agreement⁽¹¹⁾ has greatly reduced tuition fees for Singaporean medical students. However, the amount paid by students still continues to rise. Details of tuition fees for National University of Singapore (NUS) Yong Loo Lin School of Medicine (i.e. NUS Medicine), from academic year (AY) 2003/04 to 2015/16 are shown in Table I.

In 2009, Ng et al published the results of a financial study conducted on medical students from NUS Medicine.⁽¹²⁾ It revealed that a large number of medical students experienced severe financial difficulties coping with the tuition fees, despite the existence of numerous financial aid schemes. This study was instrumental in raising awareness about the needs of financially disadvantaged medical students and helping to establish a number of new scholarships and bursaries to assist these students. Thus far, the financial aid schemes that have been established are offered to students based on certain criteria. Some forms of aid disbursed are purely based on household income levels, while others are merit-based with consideration of both the academic standing of the individual and his/her household income level.

In the current study, we aimed to examine whether the rise in medical school fees over the years has increased the proportion of NUS Medicine students with a significant financial burden. We also described the current distribution of financial aid available

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Academic yr of matriculation	Full annual tuition fee (SGD)	Annual government tuition grant (SGD)	Annual amount payable by student (SGD)	Total tuition fee payable by student (%)
2003/04	80,800	64,600	16,200	20.0
2004/05	80,800	64,600	16,200	20.0
2005/06	81,610	64,600	17,010	20.8
2006/07	82,120	64,600	17,520	21.3
2007/08	97,020	79,500	17,520	18.1
2011/12	109,510	89,000	20,510	18.7
2012/13	116,100	94,360	21,740	18.7
2013/14	123,050	100,000	23,050	18.7
2014/15	129,200	105,000	24,200	18.7
2015/16	135,650	110,250	25,400	18.7

Table I. Trend of tuition fees per annum for an MBBS degree in National University of Singapore Yong Loo Lin School of Medicine (Singapore citizens).

Table II. Comparison of monthly household incomes, from work, of medical students (MS) and the national population (NP) in 2007 and 2014.

Unadjusted	2007		2014			p-value	
monthly household income (SGD)	No. (%) of MS	NP (%)*	Ratio of MS to NP	No. (%) of MS	NP (%)*	Ratio of MS to NP	
< 3,000	155 (21.9)	26.4	0.83	182 (19.5)	15.6	1.25	0.294
3,000-5,000	186 (26.2)	20.2	1.30	96 (10.3)	13.3	0.77	< 0.001
5,000-7,000	126 (17.8)	15.9	1.12	109 (11.7)	13.3	0.88	< 0.001
> 7,000	242 (34.1)	37.5	0.91	546 (58.5)	57.8	1.01	< 0.001

*National statistics are obtained from national census data. The p-value is based on a comparison of the percentage of MS in each household income category between 2007 and 2014.

for NUS Medicine students. We hope that the study findings will provide decision-makers with useful information, allowing them to better support medical students financially.

METHODS

A quantitative survey was conducted on all medical students from NUS Medicine. The authors obtained ethical approval for this study from the NUS Institutional Review Board (IRB; NUS IRB code: IRB-2014-07-015), with permission for a waiver of consent to preserve the anonymity of the participants, due to the sensitive nature of the questionnaire. Completion of the survey was considered to be consent for involvement in the study. Hard copies of the questionnaire forms were distributed to all Year 1–5 NUS Medicine students in 2014. No faculty members were involved in the distribution of questionnaires, and an attempt was made to ensure that there was no incentive for participation or disincentive for non-participation. No identifiers were collected within the survey. Participant information sheets were provided along with the questionnaires to all potential participants. A briefing was also provided before the start of the survey.

Information regarding household income, financial assistance, monthly allowance and expense, and concurrent occupations was collected. All data collected was analysed using IBM SPSS Statistics version 22.0 (IBM Corp, Armonk, NY, USA). Chi-square test was used to determine statistical significance in differences between groups. Where relevant, we included error margins in the form of confidence intervals. Data from this study was compared with that from a previous study conducted among NUS Medicine students in AY 2007/2008.⁽¹²⁾ Where

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relevant, the key household income trends in the years 2006⁽¹³⁾ and 2014⁽¹⁴⁾ were compared. These national trends are based on studies published by the Singapore Department of Statistics in the years 2006 and 2014.

RESULTS

A total of 956 out of 1,445 medical students responded to the survey in AY 2014/2015, translating to a response rate of 66.2%, compared to 735 out of 1,143 (64.3%) medical students in the AY 2007/2008 survey.⁽¹²⁾

The proportion of medical students from households with a monthly household income from work (unadjusted for inflation) of at least SGD 7,000 (i.e. higher-income) was much higher in 2014 than 2007 (58.5% vs. 34.1%; p < 0.001). However, the proportion of such medical students was similar to that of the national population (57.8%), based on 2014 national census data. Further details are shown in Table II. In 2007, the proportion of medical students who came from households with a monthly household income from work of less than SGD 3,000 (i.e. lower-income) was lower than that of the national population (21.9% vs. 26.4%). However, in 2014, this proportion was greater than that of the national population (19.5% vs.15.6%). From 2007 to 2014, although the change in the percentage of medical students who were from this lower-income group was not significant (p = 0.294), the change in the ratio of medical students to the national population - from 0.83 in 2007 to 1.25 in 2014 - suggests that there may have been a significant change in the proportion of medical students in this group relative to the national population data.

The total number of students on financial assistance schemes decreased from 45.7% in 2007 to 39.5% in 2014 (Table III). However, there was a rise in the percentage of medical students on scholarships or bursaries, from 10.2% in 2007 to 18.9% in 2014. These scholarships and bursaries included the Singapore Armed Forces Local Merit Scholarship, NUS-based scholarships, and scholarships from private firms and banks. There was a decrease in the number of students who took up loans, from 35.5% in 2007 to 20.6% in 2014. The majority of students who were on loans received NUS-based loans, which included study and tuition fee loans, or the Central Provident Fund Education Scheme loan.

The proportion of medical students who resided in on-campus accommodation was similar, at 10.3% in 2007 and 9.4% in 2014 (Table IV). However, there was a slight decrease in preclinical students (Year 1 and 2) who resided in on-campus accommodation, from 21.2% in 2007 to 12.5% in 2014. There was also a slight increase in the proportion of clinical students (Year 3–5) residing in on-campus accommodation, from 4.08% in 2007 to 6.97% in 2014.

About 14.4% (n = 138) of medical students engaged in work over and above their medical studies (Table V). The proportion of medical students who engaged in work was similar across batches. Of those who engaged in work, 114 (82.6%) students gave private tuition, while the remaining 24 (17.4%) were involved in other forms of work. From this subpopulation, 129 students disclosed the number of hours they worked per week. Per week, 107 (82.9%) of these students worked for five hours or less, 13 (10.1%) worked for 6–10 hours, 6 (4.7%) worked for 11–15 hours, and 3 (2.3%) worked more than 15 hours. About 37.0% of students who worked stated that their work had negatively impacted their medical studies.

DISCUSSION

Medical school tuition fees in Singapore have risen by almost 50% over the last seven years, since the last comprehensive analysis of the financial status of medical students conducted in 2007.⁽¹²⁾ We studied the financial status and impact of these rising fees among NUS Medicine students in 2014 and compared our findings with those of the earlier cohort. While household incomes had increased among medical students in tandem with the national figures, the most striking finding was the rise in the proportion of students who came from lower-income households. This was accompanied by a decrease in the proportion of students from the middle-income groups and an increase in the proportion of students were also engaged in some form of work in the course of their medical education. Many of these students opined that their work had negatively affected their education.

The shifts in the proportion of medical students from the groups with the highest and lowest income between 2007 and 2014 are generally consistent with the changes in the national household income distribution in Singapore. However, interestingly, there was a higher proportion of medical students from the lower-income group (19.5%) compared to the national

Table III. Proportion of medical students under the various financial assistance schemes in 2007 and 2014.

Financial assistance	No. (%)			
scheme	2007 (n = 735)	2014 (n = 956)		
Loans*	261 (35.5)	197 (20.6)		
Scholarships/bursaries ⁺	75 (10.2)	181 (18.9)		
Total	336 (45.7)	378 (39.5)		

Percentages are calculated according to the total no. of respondents for the study. *Loans mainly include National University of Singapore (NUS)-based loans, the Central Provident Fund Education Scheme loan and miscellaneous loans from students' relatives. +Scholarships/bursaries include the Singapore Armed Forces Local Merit Scholarship, NUS Scholarship, OCBC Bank and United Overseas Bank Scholarships, and miscellaneous scholarships and bursaries awarded by various corporate companies.

Table IV. Comparison of proportion of medical students who lived in on-campus accommodation in 2007 and 2014.

Class	No.	(%)	p-value
	2007	2014	
Year 1	19 (20.00)	35 (15.7)	0.0570
Year 2	38 (21.84)	18 (9.0)	< 0.001
Year 3	11 (6.15)	31 (12.4)	0.00319
Year 4	6 (2.93)	5 (3.2)	0.546
Year 5	2 (2.44)	1 (0.8)	0.464
Total	76 (10.3)	90 (9.4)	-

Percentages are calculated according to the total no. of respondents in each year.

 Table V. Proportion of medical students who worked and stated that

 their work negatively impacted their studies in 2014.

Class		No. (%)		
	Total*	Work affected studies		
Year 1	32 (14.3)	11 (34.4)		
Year 2	27 (13.5)	12 (44.4)		
Year 3	41 (16.4)	14 (34.1)		
Year 4	22 (13.9)	8 (36.4)		
Year 5	16 (12.6)	6 (37.5)		
Total	138 (14.4)	51 (37.0)		

*Percentages are calculated according to the total no. of students in each year.

proportion of households from this group (15.6%) in 2014. This is different from in 2007, during which the proportion of medical students from lower-income households (21.9%) was lower than the national proportion of lower-income households (26.4%). There are some possible reasons for this: a rising number of non-citizen families residing in Singapore that may have a lower household income from work, reflected in lower incomes in Singapore dollars; and greater outreach by NUS Medicine to increase the diversity of applicants to the medical school. The current financial bursaries offered to medical students at NUS Medicine are shown in Table VI.

In the current study, we found a statistically significant shift in the proportion of medical students from the higher-income group, from 34.1% in 2007 to 58.5% in 2014. However, as there was a concomitant rise in the national proportion of households in the higher-income group, from 37.5% to 57.8%, the ratio of medical students compared to the national population in this group remained similar (0.91 in 2007 vs. 1.01 in 2014).

Award	No. of awards	Quantum (SGD unless otherwise stated)
A & B Leong Bursary	1	10,000
Alice & Peter Tan Bursary	26	15,000
Balaji Sadasivan Fund Bursary	4	5,000
Chew Beng Keng Medical Scholarship	1	10,000
ES Monteiro Scholarship	1	4,000
Fok Chu On Family Bursary	7	22,000
Gan Guat Ching Medical Scholarship	1	20,000
George SC Wong Bursary	2	5,000
Ho Gien Chiew Bursary	1	10,000
Ho Lai Chee Bursary	1	6,000
James and Natalie Loh Scholarship	1	12,000
John A Tambyah Bursary	1	4,800*
Lee Foundation Medical Bursary	10	10,000
Lee Kiat Chew and Tan Luan Keng Bursary	1	10,000
Lim Boon Keng & Lim Kho Seng Medical Bursary	1	12,000
Lim Peng Thiam Medical Bursary	1	12,000
MBBS Class of 1981 Bursary	1	10,000
Medical Bursary Fund	2	5,000*
Mount Elizabeth-Gleneagles Scholarship	16	10,000
Ngoi King Chik Bursary	1	10,000
NPK Rajamanickam Medical Bursary	1	6,000*
NUS Medical Bursary	1	18,200
NUS Medical Society – Christine Chong Hui Xian Bursary	4	5,000*
NUS Medicine Tuition Bursary	16	Full tuition fees
R Kanagasuntheram Bursary	7	3,000*
Rinesh & Nishal Bhullar Medical Bursary	3	5,000
Sanjiv Misra Bursary	2	10,000
Seybold & Suean Lin Jen Scholarship	4	USD 12,500
SMA Medical Students' Assistance Fund Bursary	32	5,000*
Tanoto Foundation Scholarship	16	12,000
Toh Kian Chui Bursary	5	5,000
Toh Kian Chui Tuition Bursary	3	Full tuition fees
Yeoh Seang Aun Bursary	1	8,000

*Fund to be used for living allowance only. SMA: Singapore Medical Association

This suggests that despite the increased proportion of medical students from the higher-income group and decreased proportion from the middle-income groups, increasing medical school fees over the years may not have deterred the middle-income from applying for medical school. Instead, our finding may have been another manifestation of economic differences within the strata of Singapore's society.

From 2007 to 2014, we noted a decrease in the number of medical students who received some form of financial assistance, from 45.7% to 39.5% of students. This was despite an increase in the number of medical students who received bursaries and scholarships, from 10.2% in 2007 to 18.9% in 2014. The rise in the number of students depending on scholarships and bursaries could be partly due to the relatively higher proportion of students from lower-income households and the sharp rise in the overall total cost of medical education over the years (Table I). This is reassuring, as the availability of scholarships and bursaries appears to have reduced the deterrent effect of

rising fees for students from lower-income households. However, the sharp decline in the overall proportion of students from the middle-income groups (from 36.1% in 2007 to 26.6% in 2014) is a cause for concern. It corresponds with the decreased proportion of students who took up loans (from 35.5% in 2007 to 20.6% in 2014). A possible reason could be the use of strict per capita household income criteria for most current bursaries and scholarships, which tend to favour supporting students from lower-income households over those from families with slightly higher household incomes. In theory, the availability of study loans to students from middle-income households should have at least maintained the proportion of this subgroup of students enrolled in medical school from 2007 to 2014. In practice, however, there may be other financial factors that we have not considered, which may influence the decision of potential medical students to not enrol in medical school. Furthermore, study loans, unlike means-tested bursaries and scholarships, place students in debt. High tuition fees have been shown to potentially result in large debts.⁽¹⁵⁻¹⁷⁾ Although loans remove the current financial burden for medical students, they contribute to their post-graduation financial burden. This may be undesirable, as it could impact career choices and lead to excessive moonlighting or locum work by junior doctors, which may have repercussions for future training.

We also found that 14.4% of NUS Medicine students were involved in some form of work during their medical school years. More than one in three of these students stated that their work had negatively affected their studies. This suggests that a high proportion of medical students who work do so out of necessity, to support themselves financially and reduce the financial burden on their families. The impact of work on a student's medical education, in addition to existing heavy financial burdens, further contributes to the potential mental health issues the student may face. All this may lead to a suboptimal medical education. Studies from the United Kingdom, where medical school tuition fees rose from just over GBP 3,000 per year in 2011 to GBP 6,000-9,000 in 2012, have shown that poor mental health in medical students was related to financial challenges, with some considering leaving school due to financial challenges, (18-20) financial concerns, (21) being in debt⁽²²⁾ and being concerned about debt.⁽²³⁾ Other studies have also shown that financial challenges result in poorer mental health in tertiary students.(24-27)

To overcome the issue of rising tuition fees, several solutions have been proposed in the literature. Weinstein et al,⁽²⁸⁾ for instance, discussed the SAFE (Strategic Alternative for Funding Education) programme, in which practising physicians pay for their medical school education over a ten-year period after completing relevant postgraduate training, rather than through loans obtained while studying. Other suggestions from overseas include shortening the length of medical school training,⁽²⁹⁾ raising the salary of residents so as to increase the ease of debt payment, and decreasing the length of residency and fellowship training.⁽³⁰⁾ With the ever-increasing medical school tuition fees, practical solutions have to be considered to reduce the financial burden of a medical education and to ensure increasing diversity in the medical students whom we attract. In Singapore, students start repaying their student loan once they start working, which potentially has an adverse impact on postgraduate career choices.^(5,7) When this medical school was first established in Singapore in 1905,⁽³¹⁾ it was recognised that medical education had to be accessible to the best students with aptitude and interest in medicine as a career, in order to serve the local community. Hence, a number of scholarships were made available and fees were kept low.^(1,31) Hopefully, some of that spirit can continue as NUS Medicine moves forward into its second century.

This study had certain limitations. First, as it is primarily a survey of medical students, our data heavily depended on self-reported information and was therefore prone to recall bias. Second, despite our best efforts to reach out to all the medical students in NUS Medicine, there was still a 33.8% non-responder rate for the current survey. The participation of this group of non-responders could have resulted in some differences and impacted our findings.

In conclusion, undergraduate medical school tuition fees in Singapore have been rising over the years. It is reassuring that the proportion of students from the lowest household income group has increased, possibly in response to efforts by NUS Medicine to increase the diversity of applicants to the school. However, the drop in proportion of students from lower- and middle-income households and the large number of students who have to work despite its impact on their studies are both serious concerns. We need to establish more comprehensive funding models to ensure that Singaporeans are served by the most qualified doctors in the future, regardless of the socioeconomic background of the doctors in their formative years.

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