Students as facilitators in a teacher training program: motivation for leadership roles

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Introduction: Although students often partake in peer-teaching activities during medical school, they are rarely provided with formal training in teaching. We have previously described our teacher training (TT) program for medical students. The TT program is delivered face-to-face across two sessions. In order to alleviate academic teaching load required to run the course, and at the same time provide our final-year students with practical opportunities to develop their leadership skills, we engaged five senior students as co-facilitators alongside academic staff. By developing an understanding of our students' motivation to participate as facilitators, we may be able to promote an interest within leadership in teaching among other students. Our study sought to examine students' motivation to take part as facilitators in the TT program.

Methods: Data were collected through a focus group session with the five student facilitators. Self-determination theory, which poses that there are three elements key to intrinsic motivation, including autonomy, competence, and relatedness, was used as a conceptual lens to identify and code recurrent themes in the data.

Results: Elements that motivated students to assist in facilitation included an opportunity to review and build on their knowledge and skills in teaching practices; the recognition and acknowledgement received from school staff and fellow students; the opportunity to develop these relationships; and a desire to increase their peer-teaching responsibilities.

Conclusion: By actively involving our students in leadership practices, we were able to not only engage the students, but also develop our student community and contribute to the promotion of a culture of excellence in teaching within the hospital.

Keywords: teacher training, motivation, leadership, peer-assisted learning

Introduction

Although students often partake in peer-teaching activities during medical school, they are rarely provided with formal training in teaching.¹ We have previously described our teacher training (TT) program for medical students.² The purpose of the program is to assist senior students in preparation for their roles as peer teachers within medical school^{3,4} and also to better prepare them for their future roles as medical practitioners with teaching, supervision, and assessment responsibilities.⁵ The TT program is delivered face-to-face, with topics including skills teaching, small group teaching, bedside teaching, assessment, and feedback. Implemented across two 3-hour sessions, delivery includes both large group interactive teaching and small group active learning. The program is resource-intensive to run, requiring at least seven facilitators for each session, in particular for the small group activities.

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In order to alleviate the academic teaching load required to run the course, and at the same time to provide our final-year (year 4) students with practical opportunities to develop their leadership skills, we engaged a core group of students as co-facilitators of our TT program alongside two academic staff. While traditional approaches to development of leadership skills involve “courses” in leadership, it has been suggested that development of leadership skills should be addressed within the early stages of medical education and continued throughout a doctor’s career.⁶ Further, this development should be nurtured and supported by the organization in which they learn and work.⁶ These newly created leadership roles, we felt, would highlight for students the importance of promoting excellence in teaching skills within the medical profession.⁷

By developing an understanding of students’ motivation to assume such roles, we may be able to promote an interest within leadership in teaching among other students. Motivation has been described as a person’s willingness to apply effort in order to achieve a particular goal,⁸ but it is a complex concept. While both extrinsic and intrinsic motivators are evident, intrinsic motivation is a powerful influence.⁹ Self-determination theory (SDT)⁹ offers a conceptual lens to view facilitators’ intrinsic motivation. SDT poses that three elements are key to intrinsic motivation: autonomy, competence, and relatedness. Autonomy relates to students’ sense of independence and choice. Competence relates to students’ aim to gain mastery of a subject. Relatedness refers to students’ sense of community among others with similar interests.

Our study sought to examine students’ motivation to take part as facilitators in the TT program.

Methods

Context

The TT program was conducted in March 2014 at Sydney Medical School – Central, based at Royal Prince Alfred Hospital (Camperdown, NSW, Australia), where year 3 and year 4 students gain clinical experience in their final 2 years of the graduate-entry medical program. Participants enrolled in the program were from year 3 of the medical program and facilitators were from year 4.

Structure and content of the program

The program was run across two 3-hour sessions. In total, 23 year 3 students voluntarily participated in the program. The program was delivered as a four-module face-to-face program, providing theoretical background, practical examples, and active participation in “skills teaching”, “small

group teaching”, “clinical teaching”, and “assessment and feedback”.² Facilitation included interactive large-group PowerPoint presentations as well as two small-group sessions. Each small-group session consisted of three to four participants. During the small-group sessions, participants were required to teach their peers a short 5–10 minute microteaching activity. The first activity was to teach a nonmedical skill and the second activity was a teaching presentation on a medical topic. Participants were required to provide feedback to their peers during the small-group sessions.

Facilitators

Two senior academic staff led facilitation. In total, at least seven facilitators were required to run the sessions, including the two senior academic facilitators. We invited eight of our year 4 students by email to assist in facilitation, and in particular, to supervise the small-group sessions. Students selected to facilitate were those with a good academic record, with a good attendance and participation record, and who had previously completed the TT program themselves as year 3 students. We limited the initial invitation to eight students as we felt that five to eight students would provide adequate resources, and we were unsure of the likely response.

Facilitator responsibilities

Although the senior academic staff (two associate deans) led the large group sessions, the students had minor roles within these sessions, such as speaking to some of the PowerPoint slides and demonstrating the teaching of a skill. Student facilitators had independent responsibilities for facilitation of their own small groups. They were required to facilitate each student in teaching a skill within the group, give a short tutorial, and ensure correct feedback by other members of the group (as well as their own feedback). Students were thanked by the associate dean of the school and given a certificate at the end of the course.

To prepare for their facilitator roles, students were required to attend a 1-hour meeting where they were briefed on their responsibilities and how to teach within the small groups and were provided with facilitator packages containing the PowerPoint presentations, facilitator guidelines, and a detailed schedule.

Data collection and analysis

Student facilitators were invited to attend a focus group. Data were transcribed verbatim. A thematic analysis of the qualitative data was done using Framework Analysis.¹⁰ SDT was used as the conceptual framework for this paper and to subsequently develop a thematic framework, which was

Table 1 Students' motivation in relation to autonomy

Themes relating to autonomy	Student comments
Student liked being approached directly to facilitate	"I liked that the email asking me to facilitate was personalized, in a targeted approach. The personalized aspect inspired me to respond. Having been asked directly, I thought I should get involved. There is also a sense of obligation. I did the program last year and I really enjoyed it, so I wanted to help out". "I got the impression it was a limited email that was sent around, and that we were approached directly, I appreciated that personally. I immediately replied".
Students enjoyed the autonomy of having their own small groups to facilitate	"I enjoyed the small groups the best. I felt responsible and a sense of achievement. I don't think we've ever really run small groups before, so it was a good opportunity to practice leadership skills, to also practice engaging people you're trying to teach, like how to make something interesting, not boring".
Students indicated that they would have liked greater responsibility and autonomy throughout the large-group sessions	"I would like more opportunities to present in the future during the large group sessions, and even in organizing the training. But it is good to start with a small role and develop that". "It provided a sense of autonomy when the professor came up to us and said, 'So are you doing these slides too?' It's nice that we are seen as confident enough to do that".

Table 2 Students' motivation in relation to competence

Theme relating to competence	Student comments
Through facilitation, students were able to revise teaching concepts they had previously learnt	"I thought being a facilitator would help revise all the concepts that I learnt last year. I revised all these concepts, and practiced on presentation skills". "Being a facilitator means I can use all the skills about feedback and teaching a skill, all the different steps".
Facilitation was a way for students to reinforce their own teaching knowledge and skills	"When we were teaching in the small groups, we had to keep reminding the students about, for example, the steps in feedback, and reminding the students what the rules were, and you were actually reminding yourself as well". "Facilitating gives a reason for us to actually dig deeper into topics that we should know about, it reminds me about what I don't know. You have to understand the concepts of teaching a lot more in order to teach it".
Facilitation helped to develop students' communication skills	"When you are teaching younger peers you have to consolidate information that you've learnt and it also improves your communication skills because you're trying to convey succinctly a concept, so I would have thought that would be very useful in terms of developing my skills as a doctor".
Students felt facilitation would help them prepare for their roles as medical practitioners and also provide evidence of their experience	"I thought it would help in that I'm hoping to do some teaching next year as an intern, so that would be good preparation, and something good to add to my CV". "I think it is of benefit on your CV if you're an intern or a resident. Maybe they would have faith that you'd be teaching students properly".
Students found a sense of satisfaction and mastery in running their own small groups	"There is always a sense of satisfaction when you've done something properly and I think just from the small-group sessions that we did, I felt pretty satisfied that they went well and accomplished what we were trying to get out of the whole session".
Students gained a sense of achievement and recognition	"I felt a sense of achievement being a facilitator. The certificate of being a facilitator is important".
Students wanted to improve the quality of teaching	"Because you feel like you've judged other people as teachers in the past, you want to not fall into their mistakes. So I think mastering the art of teaching is important to us".
Students learnt there are many skills involved in teaching that require practical experience to master	"How to deal with people not following instructions, it can be frustrating. When they are teaching a skill, and doing it in the wrong order, you have to figure out how to correct people. That is just as important as being able to explain something in the first place, because we can all explain how to do something, but then to actually correct someone who thinks they're doing it right is hard. And you need to understand why they are doing it wrong as well. You need to be a good observer in this type of thing. And you need to see where their thought process is going wrong".
Students were able to gain confidence from facilitating	"I think having been a facilitator, I'd feel more confident in explaining something to others, which is a pretty important part of being a doctor in general; you're going to have to explain every day different things to patients". "I think teaching is less difficult if you've facilitated in this course".

Abbreviation: CV, curriculum vitae.

applied to a portion of the dataset by two authors to determine its trustworthiness. Subsequently, a coding framework was developed to code the entire dataset in order to identify and code recurrent themes in the data.¹⁰

Ethics approval was obtained from the University of Sydney Human Research Ethics Committee.

Results

Of the eight students who were invited to be facilitators, five agreed to participate.

All five student facilitators attended the focus group. Of the five, four were female and one was male.

Using the components of SDT, including autonomy, competence, and relatedness, as the conceptual framework, students' motivation to take part as facilitators is demonstrated in Tables 1–3.

Discussion

Our final-year students were provided with an opportunity to undertake important leadership roles as facilitators.

Table 3 Students' motivation in relation to relatedness

Themes relating to relatedness	Student comments
Students felt a sense of community within the school	"I think taking part developed a sense of being connected with the clinical school and the other student facilitators as well".
Facilitation allowed students to meet and engage their junior peers in a formal capacity	"I had some students in my group that I didn't know, and now they know that I was a facilitator, so it's nice to have that relationship that now we will say good morning when we see each other". "I liked getting to know the younger years because I don't have that many opportunities to meet them in other circumstances, and I enjoy seeing what kind of creative ideas they come up with in terms of teaching skills and presenting the two exercises that they did".
Students found facilitation gave them a platform of recognition to recruit participants for their own peer tutoring	"It was easier for us to launch our own peer tutoring program with the year 3 students knowing that we were the facilitators in the TT program. We made a good impression".
Students felt that by facilitating, they became better known to staff	"I think it's good to make yourself known to people who are in charge of the school or the department. It was nice that the head of school became known to all of us on a more intimate level".
Students were inspired by senior academic staff who have an interest in teaching	"It was good to get to know the head of school, he's always around, doing important stuff, and this was just nice, to get to see him working with us. I was looking at him and I thought there's someone who does a lot of other things with his life, but obviously still likes it and is still involved in teaching and wants to make the clinical school a better learning environment and that's wonderful".
Students saw facilitation as a way to engage with clinical school staff	"It was nice to have recognition from the head of the clinical school and other staff, and to develop a relationship with them so you can keep working within the clinical school, helping out". "In terms of staff, I think it's really nice that we've started to get to know each other, and I think that builds a nice environment in which to work".
Students felt that by facilitating, they would be provided with future opportunities within the school and hospital	"I think on a logistical level, now that we're known to the administrators and academics, as students who have facilitated the course, you're more likely to be called on to teach. Being a facilitator has provided us with pathways for more opportunities. We'd be more than happy to help with student teaching". "This provides more opportunities for teaching, it builds up the connection a bit more. I'd be more likely to be involved in teaching opportunities as a result of facilitating".
Students found facilitation a way to stay engaged in teaching with the school beyond medical school	"And if I end up getting an internship at RPA, I think it will be nice to still be in contact with the clinical school. Most people want to come back here to work". "Being a facilitator definitely makes you want to do more teaching, because then I can improve on and I enjoy teaching".
By taking part as a facilitator, students felt inspired to help the school in the future	"I've been inspired to take part more in activities the clinical school organizes because of the rapport we've already established". "I think being a facilitator inspired me more to want to teach because I hadn't done much teaching before, so doing those small groups sort of sparked the desire to teach".

Abbreviations: RPA, Royal Prince Alfred Hospital; TT, teacher training.

Their participation provided a crucial resource to run our TT program. Using SDT as a conceptual framework, this study sought to explore students' motivation to facilitate the TT program for their junior peers.

Autonomy

A sense of choice is desired by most people,¹¹ and students were free to choose whether or not to accept the invitation to facilitate. Although autonomy does not mean working separately from others,¹² autonomy was fostered by providing students with the opportunity to use their knowledge and prior training in teaching to take responsibility for their own small groups. Some were also given a role within the large group teaching alongside the senior academic staff. By choosing to be facilitators in the TT program, students felt they were able to help shape the quality of teaching for fellow students.¹³

Competence

Individuals enjoy mastering subjects in which they are engaged.¹⁴ Reflective practice has the potential to engage and motivate individuals to even higher levels of expertise.¹⁵ Although our facilitators had already completed the TT course themselves as year 3 students, they felt facilitation in TT provided them with opportunities to practice and reinforce their teaching skills. Certainly, facilitators expressed a sense of achievement and enjoyment in running their own small groups, stating that it presented new challenges to them. For example, our facilitators found it challenging to develop appropriate techniques to correct students' teaching methods during these small-group activities. An optimum level of challenge is important in working toward mastery of a subject,¹¹ and our facilitators aspired to improve their professionalism skills in teaching, recognizing this as a graduate attribute that is required in future medical practice.

Relatedness

A sense of community may be fostered within groups of individuals with similar goals,^{16,17} and medical education involves a process of socialization.¹⁸ The social context of the TT activities promoted communal engagement, not only among students, but also with senior academic staff. Student facilitators expressed an understanding of how their contributions as facilitators might impact on their school community at Royal Prince Alfred Hospital.⁶ By embedding leadership development in students' hospital-based activities, students could see how their role as facilitators linked to the development of their school, their hospital, and the medical profession as a whole.¹⁹ Students recognized the importance

of teaching in their future medical careers, realizing that teaching formed part of their professional identity.

Limitations

The major limitation of our study was the small number of participants. The views of these participants may not be generalizable to a wider student population.

Conclusion

An understanding of students' motivation to participate in leadership roles may help to develop future opportunities for students within our medical school. Importantly, student facilitators conveyed an appreciation of the teaching and supervision responsibilities they will assume in their future careers as medical practitioners. Senior students' motivation to assist with facilitation of the course was largely related to the opportunity to review and build on their own knowledge and skills in teaching practices; the recognition and acknowledgement received from school staff and fellow students; the opportunity to develop these relationships; and the desire to increase their peer-teaching responsibilities. By actively involving our senior students in leadership practices, we were able to not only engage the students, but also develop our student community and contribute to the promotion of a culture of excellence in teaching within the hospital.

Disclosure

The authors report no conflicts of interest in this work.

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