Preparedness of the teachers for Team-Based Learning: Liking, disliking and suggestions of faculty

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INTRODUCTION

Team based learning is an instructional strategy which implies active learning process to promote both the learning of factual material as well as higher-level cognitive skills (Thompson et al., 2007; Nieder et al., 2005). It was originally developed for business schools and other higher learning settings and currently being employed in various courses in medical and health professional education (Thompson et al., 2007; Hunt et al., 2003; Koles et al., 2005; Nieder et al., 2005).

It differs from problem-based learning (PBL) in that, there is no need for multiple faculty or rooms for TBL; the instructor need not have any experience in group process but must be a content-expert; since student learn how to be productive and collaborative in the process, they do not need any specific instruction in teamwork (Parmelee et al., 2012). Faculty are more engaged with the students in TBL than in traditional lecture or other small group approaches and they know quickly what their students are achieving (Nieder et al., 2005). There are four essential principles in TBL and the success depends when the faculty able to implement all these four principles. The essential principles are: (i) groups must be properly formed and managed, (ii) students must be made accountable for their individual and group work, (iii) group assignments must promote both learning and team development, and (iv) students must have frequent and timely feedback. When these principles are in place, groups of students evolve into cohesive learning teams (Michaelsen et al., 2004). In Medical faculty of University Kebangsaan Malaysia, TBL is a new method of teaching adapted to foster the teaching-learning among the medical students. Preparedness of teachers and their perceptions on a new method of teaching is very important for its successful implication. This paper determines the teachers’ expression and liking, disliking and suggestions following a post-workshop evaluation on TBL training workshop. This paper may help to get thought on initiating TBL in an educational institution.

MATERIALS AND METHODS

This was a qualitative survey on TBL conducted at the end of a 2-days-TBL training workshop held at UKM Medical Centre in September 2014. It was attended by 39 faculty members from different disciplines of UKM medical centre.

The TBL training workshop was conducted through assigned pre-reading, application exercises, interactive lectures and video demonstration on TBL, and feedback. Medical education expertise faculty members facilitated the workshop.
Day before beginning of the workshop, faculties were provided an article on TBL to read on it. On day one of workshop after introductory session, there were hands on exercise on TBL which consisted of sitting of all participants in different small groups, performing individual readiness assurance test (RAT), group RAT and team activities. First, individual participants answered items on a RAT on TBL. After that, group members discussed and answered the items of same RAT in groups. Participants were familiarized with the basic concepts of TBL through interactive lectures. Facilitators guided the participants to discuss in groups and solve the items of RAT using their background reasoning. In the afternoon, video on TBL was demonstrated to enhance the participants’ understanding on TBL concepts. On day two of workshop, one representative from each team presented and had shown how their PPT of lecture sessions can be converted into TBL session.

At the end of the workshop, feedback from the participants was obtained by distributing the open-ended questionnaire asking about “What did participants like in this workshop?”, “What did participants dislike in this workshop?”, “What is/are participants’ suggestions to improve future TBL training workshop?”. The questionnaire was then collected, compiled and thematic analysis was done.

RESULTS

Faculties’ responses on their liking, disliking and suggestion to improve future TBL training workshop are shown in tables 1, 2 and 3 respectively. Faculty members participated in this workshop liked this new method of tutoring to teach more interactively and gained new insight with informal lively discussions through great team effort (Table 1). The main disliking was short notification about assigned pre-reading, short demonstrations and disturbance from the departmental activity/work (Table 2). Frequent workshop with smaller group, workshop at outside work place, longer demonstrations with example from other centers and to involve more lecturers were the major suggestions (Table 3).

DISCUSSION

The curricular transition needs active participation of the faculty members and it would be difficult for the transition if the faculty feel challenged or unable to meet the expectation of the tutoring. This workshop showed positive influence to the faculty in their perception on TBL. This is expressed by their likeliness to this new method of teaching by saying that the workshop gave them ‘a new way to teach medical students to make it more interactive, interesting and more students directed with lecturer guidance’, ‘a new insight on a more innovative way to teach more interactive me between students’ (Table 1)

TBL is a transformative use of small groups learning in large classes (Parmelee et al., 2012). It enables the students at risk to fruitfully complete their course work and keep on track in their advancement toward graduation (Michaelsen and Sweet, 2008). Although most of the faculty members expressed to get new insight on more innovative way of teaching, still they disliked one basic step of not getting enough time for the reading as the materials were sent one day earlier (Table 2). In a study regarding the implementation of TBL in Oklahoma University, it was stated that around 30 pages of assigned materials were given to the students at least 2-3 days earlier, so enabling enough learning time for the session (Letassy et al., 2008). Thus, it is necessary to provide enough time for the preparation.

Faculty members also felt disturbed by the departmental activity even though they involved in the workshop. They were also worried about student commitments in TBL which is an integral part for the success of TBL (Table 2). It is evidenced that student accountability significantly increased with the implementation of TBL (Letassy et al., 2008). Study showed positive findings where faculty perceived that there were higher levels of student engagement and work as a team during class, increased class attendance and well preparedness to achieve the target knowledge (Allen et al., 2013). The reason behind active engagement in TBL was suggested possibly due to the good relationship among students in the team as well as due to their perception of individual contributions to the team’s performance (Haidet et al., 2008).

Participants suggest, it would be better if they could have been exposed to the example from other centers especially medical schools, or get feedback from lecturers those who have conducted TBL. They preferred more lengthy video session and more frequent workshop with smaller groups for further clearer of their understanding.

They also suggest more of the lecturers need to have the opportunity to attend this type of workshop (Table 3). These suggestions are expected as this is a new method of teaching. Previous study on 10 medical schools in USA to review the progress and understand the factors affecting TBL showed many faculties initially interested for TBL but they wanted to see someone else to try it first to establish experience before they tried it themselves. Ongoing faculty training is thus very important to change the attitude and understanding on TBL. In the same study it was found that initially the faculty misunderstood the method. They relearned the method and better understanding leads to better work. They become more comfortable in time with the method. The first year of TBL in those medical schools were not perceived as good as the faculty was not comfortable with the method which was subsequently eliminated with the repeated use of TBL (Thompson et al., 2007).

Regarding time management, some liked two days is alright, some dislike saying those two days is too long and some suggest to compress into one and half days which could be better time management. Faculty also suggests doing the workshop outside the hospital or work place (Table 3), probably this suggestion is to avoid disturbance from the departmental activity during the time of workshop.
To produce a good human capital, realization of individuals’ approaches from their own perspectives is crucial
(Salam et al., 2014). It is necessary to prepare faculty comfortable before starting any new method of teaching. Academic vitality depends on faculty members’ interest and expertise (Steinert, 2005) and learning is more likely to lead to changes in practice when needs assessments are conducted (Steinert, 2005; Grant, 2002) and faculty development activities done to fulfill the needs’ of faculty. This evaluation provides the organiser an insight of the needs of faculty members in future developmental workshop aimed to link between theory and practice to ensure a sustainable organisational development.

CONCLUSIONS

TBL faculty preparedness workshop at UKM medical centre is found positive towards the new method of teaching. Faculty perceived that, TBL workshop prepared them for a new way to teach medical students to make it more interactive, interesting and more students directed with lecturer guidance. However, before starting a new teaching learning method, teachers need to be confident enough and hence, more practical demonstration is needed for the successful implementation of this new approach of teaching method. Future developmental workshop should aim to fulfill the needs of the faculty aimed to link between theory and practice for a sustainable organisational development. Medical schools should use TBL as an educational tool in order to make the teaching more interactive and interesting aimed to increase learners’ efficiency.

CONFLICT OF INTEREST

The authors declare that they have no conflict of interests.

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REFERENCES


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