

# Flipped learning: should it replace didactic learning?

Abdirahman Osman  
Seyed Ramin Jalal  
Saeed Azizi

Faculty of Medicine, St George's  
Hospital Medical School, London, UK

## Dear editor

We read with great interest the article by Pettit et al<sup>1</sup> on the implementation of flipped learning. We wish to offer our perspective as medical students. The study concluded that a combination of lecture-based teaching accompanied with flipped learning activities appealed to most students. We find this response unsurprising. Pettit et al's<sup>1</sup> article documents the reason – the need for a variation in teaching styles for different themes by millennial learners of the modern student community.

Petit et al<sup>1</sup> highlight the importance of altering the pedagogical approach to further engage students. The extent to which the curriculum should incorporate a flipped course is where the discussion lies. We agree that themes that require a higher level of understanding should utilize the flipped learning model to some extent. This perspective is reflected by the downside of taking a traditional approach in teaching anatomy and medical diagnostics, where basic principles take up a significant portion of teaching time. A study by Rui et al<sup>2</sup> provides quantitative evidence for the benefit of using a flipped classroom in the specific theme of diagnostics. What remains to be explored is whether or not the usage of flipped learning in other scenarios is just as effective.

Our exposure to flipped learning during medical school has been primarily through being taught anatomy and clinical skills. Reflecting on our experiences with flipped learning, we feel there are clear advantages and disadvantages. Pettit et al<sup>1</sup> discuss the advantages, including learning flexibility and the ability to control the pace of learning. An advantage not highlighted in the article is that flipped learning creates an equal platform between lecturers and students, which can benefit student understanding. On the contrary, a notable disadvantage raised by Van Vliet et al's<sup>3</sup> article is the prevalence of non-attendees. From our observations, we found it is common practice that students who have not reviewed the necessary resources prior to the session decide not to attend the sessions, as they feel inadequately prepared. The negative implications of not attending sessions could mean that students fall behind, causing increased stress for students as assessments approach.<sup>4</sup>

The merits of flipped learning are well established and it has the potential to form the foundation of teaching in medical school. Being balanced, we believe it is important to acknowledge that flipped learning does not provide all the solutions for the limitations posed by traditional teaching. To address this, we propose a coupling between flipped learning and traditional lectured-based teaching, where students are provided with the preparatory reading in advance. This will then be followed by a traditional lecture,

Correspondence: Abdirahman Osman  
Faculty of Medicine, St George's Hospital  
Medical School, Cranmer Terrace,  
London SW17 0RE, UK  
Tel +44 795 073 1276  
Email abdirahman97@hotmail.co.uk

combined with an added interactive element such as retention tests.<sup>5</sup> We believe the application of such an approach may hold the potential to allow educators to champion a more balanced and tailored approach to educating students.

## Disclosure

The authors report no conflicts of interest in this communication.

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