Improving the medical student experience using electronic timetabling

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Dear editor

Technology within health care delivery is improving at an unprecedented rate. Medical students demonstrate a preference towards mobile learning and familiarity with technology is essential to medical practice. We believe electronic timetables are an underutilized technology that can be embraced by institutions delivering medical education.

We have implemented a university-wide electronic calendar to keep students informed of extra-curricular educational events. In a poll conducted on a cohort of 197 clinical medical students, 95% are either currently using, or intend to use, the calendar. Moreover, we found that the average student spends 12 hours a year transferring their curriculum timetable from the current paper-based format to an electronic format. This means that 3,600 hours would be used on this activity across an average year group of 300 students; this time could be saved by one faculty-member distributing timetables in an electric format.

Eighty percent (102 of 127) of students who responded believed an electronic timetable would improve their time management, and 59% (64 of 109) agreed that it would improve their review of course material. Ninety-seven percent (150 of 154) of students said they would use an electronic timetable as a primary timetable, with 99% (152 of 154) having an appropriate portable device for it. Lastly, 65% (89 of 136) reported that an electronic timetable would improve their punctuality and attendance to timetabled teaching.

Electronic calendars may be of greater benefit to clinical students, as teaching opportunities tend to be less structured and more diverse compared to preclinical training. Perhaps a barrier to the uptake of electronic calendars is concern from medical schools that not all students have a compatible device; however, our results show that appropriate personal devices are prevalent amongst medical students. Moreover, electronic timetables can be printed out to accommodate those without appropriate devices.

Medical students use electronic calendars for over 50% of their learning activities through self, rather than institutional, initiatives. There are numerous benefits for institutions to introduce electronic timetabling, including easy identification of timetable clashes, as well as informing individuals of time or location changes through amendments of a central timetable that synchronizes across devices. Financial savings thanks to electronic systems have been realized in other settings, and adoption...
of electronic timetables would save the printing and staffing costs associated with conventional paper timetables. We hope that electronic timetables will not only improve efficiency and reduce costs for institutions and students alike, but also be a catalyst for the use of technology in medical education.

Disclosure
Sayinthen Vivekanantham is founding Director and Rahul Ravindran is a Trustee of Global Medical Education Trust (GMET), a recently established charity that aims to improve the quality of medical education and learning within health care.

References