

Innovation of Dental Education during COVID-19 Pandemic

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Abstract

The pandemic of COVID-19 affects the dental education a great deal. Intelligent technology has sure profit for the educational method of dental education throughout the pandemic. The impact of the pandemic of COVID-19 affects dental education a great deal. The model of dental education ought to be innovated to suit completely different things and novelty intelligent technology ought to be applied for future dental education.

Keywords: Coronavirus; Pandemic; Lockdown; Dental education; Online learning

Introduction

The impact of the pandemic of COVID-19 features a sure influence on varied walks of life round the world. From West to East, from living vogue to business model, all have suffered from this coronavirus, due to the pandemic of the COVID-19; the social manner worldwide has been modified a great deal. Despite the fact that the geographic distance among completely different countries becomes smaller thanks to the detached of this coronavirus, the social distance between masses ought to be exaggerated to stop from being infected. Several dental colleges are bolted down due to the pandemic. Most of the lectures are switched to the net mode to stay on the educational progress for his or her dental students [1]. Dental education is principally composed of 3 halves: the primary could be a Lectures/Problem based mostly Learning (PBL) part. This half is straightforward to change to online mode. There are completely different systems on the market within the net like: ZOOM meeting, Google schoolroom, Google meet, Skype, so on for the net learning. It's not troublesome to stay the social distance for this type of study. The second half could be a Simulation laboratory courses. For this course, historically, once an indication by the lecturers, the scholar can build apply within the simulation models. In such a scourge atmosphere, this half is also done mistreatment fashionable digital or video game (VR) techniques [2]. However, current facilities don't seem to be adequate, and conjointly the procedure additionally because the final work must be checked step by step by the lecturers. Thus, the simulation laboratory courses want shut contact between teacher and student. The third half could be a Clinical ability coaching in terms of berth coaching that is that the most vital infrastructure of dental education [3]. There'll be shut contact between the intern doctor and also the patient additionally because the teacher. This half is additionally the foremost troublesome a part of dental education to cope with during a pandemic atmosphere. In different hand, most of graduate schools have a probe duty for school and student (undergraduate and postgraduate). For analysis, each in vitro and in vivo, student want shut contact between masses or with animals [4]. How to accomplish the balance between stick with it learning progress for dental students however not inducement detached of infected cases is a vital issue for dental education.9 once the pandemic has been ebb then lifting the cleanup could induce another pandemic crisis due to the inevitable social contact in dental education. This may be a vital issue within the current dental education. Several lifestyles are modified throughout the pandemic, to suit the long run demand or another pandemic, dental education ought to be making ready earlier to face the long run challenge and another doable pandemic. Through trial and error, several dental colleges round the world are operating extraordinarily laborious to continue dental education in such reasonably COVID-19

pandemic atmosphere. The aim of this manuscript is to exchange the knowledge and skill of these dental educators from completely different countries, to arrange for the long run demand for dental education [5]. The topic of the second meeting was "How to proceed the clinical ability coaching courses below the pandemic of COVID-19?" Seven students from seven countries were invited to gift the way to proceed the clinical ability coaching below the pandemic of COVID-19, which includes: King's school of London, England; University of Geneva, Switzerland; Tohoku University, Japan; Harvard College of dentistry, USA; University of Health Science, Cambodia; Manila Central University, Philippines; and Taipei medication University, Taiwan [6]. The topic for the third on-line conference was "Post COVID-19 challenges in dental education, analysis and clinical activities". 5 students from University of metropolis, Italy; University of British Columbia, Canada; island University, Japan; National University of Singapore, Singapore; and Our woman of Fatimah University, Philippines, were invited to gift and discuss the innovation of dental education to suit the long run demands for the lifting post-COVID-19 pandemic internment [7]. Finally, we've compiled data and skill that collected from these online symposiums. Dental education could be a profession with the demand for shut contact between masses. Once quite four months of internment due to the pandemic of COVID-19, we have a tendency to face another challenge in terms of "unblock" which can induce another crisis of being infected [8]. So it's worthy to review the knowledge and exchange the expertise of these dental educators from completely different countries, to arrange for the long run demand for dental education [9]. The results showed that nearly all the lectures (or PBL courses) are switched to on-line courses to stay the social distance from gathering. Several conferences have conjointly been proceeded mistreatment on-line conferences. Completely different APPs are used throughout the pandemic, i.e.: ZOOM, Google meet, Skype, Microsoft groups, Panopto, Canvas. The internment browser is employed for the students' examination in a number of the dental colleges within the USA. By suggests that of the internment browser, students cannot search on the net (like google so on) to seek

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out a solution throughout the net examination. This is often one in the entire instance to use fashionable data technology (IT) to stop from cheating throughout the examination. In different hand, a frenzied on-line examination platform for dental education ought to be developed [10]. Completely different IT product is used. Microsoft groups has been used for real time on-line teaching for collegian students, whereas ZOOM is employed for postgraduate students as a result of it's convenient for the scholars to decision a gathering. Not solely students however conjointly the lecturers ought to be conversant in those advanced IT productions. academician Keiichi Sasaki from Tohoku University, Japan aforesaid that the amendment of learning modes from the area to on-line, students will adapt it additional quickly than senior lecturers since students ar additional conversant in those IT productions. However the amendment is also troublesome for those senior employees to adapt. This generation gap could become decreased once the pandemic, due to this and future demand for the inevitable necessity of IT product for all generations [11]. All the clinical coaching courses in every country are suspended as a result of most of the dental hospitals and clinics are closed throughout the pandemic, except in Taiwan. In Japan, students are divided into completely different teams to decrease the amount of scholars to attenuate the danger of supposed 3C: closed indoor venue, crowded place, and shut contact, and solely prepare the net case presentation and assessment. All the analysis work ar suspended in most countries. Animal studies were suspended in Japan; however restricted in vitro studies, which might be proceeded with laptop reception, were stay conducted. However all those analysis activities were current in Taiwan. However, several researchers and scientists ought to be facing shift work throughout this pandemic scenario. Even post-COVID-19 pandemic, true would be no any completely different [12]. Since most of the dental hospitals and dental clinics are closed, solely emergency treatment like uncontrolled harm, inflammation or a diffuse soft tissue microorganism infection with intra-oral or extra-oral swelling that probably compromise the patient's airway, or trauma involving facial bones are treated within the emergency unit of teaching hospital or public dental clinic in most countries. Video visits and phone visits were employed in Australia and USA. However emergency cases are treated each in teaching hospitals additionally as non-public dental clinic in Taiwan. The hospital ought to develop the rule to shield patient and doctor from COVID-19 infection. The severity of the pandemic of COVID-19 was depended upon the social contact among folks. The amount of death might also thanks to the pandemic ar higher in those countries with super aged society [13]. It should ensue to those aged ar general health compromised. So to integrate general health into dental education becomes additional and additional necessary. Dental patients also are changing into additional and additional aged. Therefore, we have a tendency to should listen to the current purpose once we are providing dental education. Online lectures or demonstration becomes associate inevitable technique for future dental education. To be told adequate data and technology relating to there are necessary in dental education each for educators and students. The way to build assessment online is a vital issue for future demand. The medicine specialists say that second and third wave of COVID-19 pandemic is for certain to come back. Humans have fought varied epidemics and infectious agent outbreaks throughout history. Even once this COVID-19 pandemic, there'll be another pandemic someday within the future. We, as dental educators and dental professionals, should produce a system to handle this case. there's a great deal of labor to be done, like build on-line lectures, develop VR devices for on-line simulated coaching, develop an internet examination system, and build tips for dental education below the pandemic scenario [14].

Conclusion

Crisis may manufacture opportunities. Since several lectures ar switched to on-line courses throughout the pandemic. By suggests that of the net, those courses is disseminated to as several students as doable given that the net is provided. During this case, if on-line courses is shared among completely different dental colleges in numerous countries, we are able to not solely solve the matter of shortage of teaching employees however can also verify the most courses for the core competence of the dental students in numerous countries to achieve an accord of core competence world-wide. The impact of the pandemic of COVID-19 affects dental education a great deal. To face the long run challenge the dental educators ought to use caution however not panic, being versatile, and willing to face the changes. The novel coronavirus could force dental educators to revolutionize the education system. Intelligent technology will facilitate for dental education in some ways throughout the pandemic. The model of dental education ought to be innovated to suit completely different things and new technological tools ought to be applied for dental education [15].

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