The effects of COVID-19 in medical education in Nepal

Vikash Paudel¹, Deepa Chudal²

¹Department of Dermatology, National Medical College, Birgunj, Nepal
²Department of Obstetrics and Gynecology, Nepal Police Hospital, Kathmandu, Nepal

ABSTRACT

The Coronavirus Disease 2019 (COVID-19) pandemic has caused an unparalleled disruption in all forms of the scientific learning processes including medical education. The disease has caused deaths and serious comorbidities and presents challenges for all scientists, educators, and students. This viewpoint discusses the current status of medical education in Nepal, describes how COVID-19 has affected medical education, theory, and practical classes, and internship learning environments, and explores potential implications of COVID-19 for the future of medical education.

INTRODUCTION

The Coronavirus Disease 2019 (COVID-19) pandemic has caused an unparalleled disruption in all forms of scientific learning process including medical education and healthcare all over the world.¹ The disease has caused deaths and serious comorbidities and it presents challenges for all the scientists, educators and students.² Widespread interruptions to medical education, scientific discussion, conference and seminars have also been seen at times of major conflicts and pandemics in past as well which resulted in major changes in medical curricula.³

This viewpoint discusses the current status of medical education in Nepal, describes how COVID-19 have affected medical education, theory and practical classes and internship learning environments, and explores potential implications of COVID-19 for the future of medical education.

Most of the educational institutions including medical colleges and hospital with teaching learning facilities in Nepal till the beginning of COVID-19 were based solely on traditional methods of learning, face-to-face lectures in a classroom, direct patient encounter in outpatient departments and indoors. The sudden outbreak of COVID-19 shook the entire system leading to complete change in teaching learning patterns, patient encounter and physical distancing. As the World Health Organization declared it as a pandemic, it forced the educators...
to use e-learning platform and change the traditional pedagogical approach to online teaching-learning, use of personal protective measures during patient examination and use of telemedicine. There has been increase in tele-medicines in various common disease and emergency conditions as well. This tragedy has also shaken up the entire medical education and healthcare system, and this fear is resonating globally.

The pandemic outbreak forced medical colleges and universities to remain closed completely or partially. Most of them have discontinued traditional teaching as social distancing is preeminent at this stage. The pandemic put people at risk of developing life-threatening conditions, presenting substantial challenges for medical education, clinical rotatory internship. Other challenges include a fear that medical students may contract the virus during their training and may transmit it to the community. Additionally, students are required to stay at home and to abide by social distancing guidelines.

Besides medical education, these challenges have resulted in limited patient care due to the focus on COVID-19 patients, which restricts the availability of bedside teaching opportunities for medical students. Consequently, they are unable to complete their rotatory internship in scheduled time. The medical licensing examinations have been cancelled and postponed. Recently, however, Tribhuvan University, Kathmandu University and other institutions have instructed its affiliated colleges to run online classes for students and internship posting so that there would be no lag in the academic calendar. Similarly, scholarly conferences and seminars have been postponed or rescheduled in online platforms.

COVID-19 AFFECTS THE TEACHING-LEARNING ENVIRONMENT

Social distancing is the most effective preventative strategy since the emergence of COVID-19 pending development of a vaccine, treatment, or both. By definition, this precludes students from gathering in learning studios, lecture halls, or small-group rooms. In response to COVID-19, medical education faculty have transitioned the entire curriculum to online formats that include content in the basic sciences, health systems, and even in behavioral sciences. Zoom, Google meet, Microsoft team and many other platform are being for online classes in virtual room. Examinations have also transitioned to online settings. The transition from the workplace or medical school setting to home results in isolation, an increased use of email among teachers, students and support staffs.

Internship posting as a direct encounter to the patient have been severely affected due to COVID-19 pandemic. There is a fear among students and clinicians that because of highly contagious pandemic, students may transmit the virus unknowingly or contract the disease. Some other factors that limit the role of students is lack of familial support, lack of COVID-19 testing; diminished value of education, with cancelation of surgeries and the transition to telemedicine formats, and lack of adequate personal protective equipment and its financial aspect.

There is uncertainty regarding how long this situation will persist but the situation is gradually changing. Various medical college have started internship posting by adopting social distancing, protective gears and limiting number of patients and intern doctors as directed by universities, national medical boards in a “new normal” environment. With the discovery of new vaccines against SARS-COV-2, there is glimpse of hope that the medical education might return to its pre-COVID era, but the online teaching learning platform might be incorporated in existing system as hybrid in the curriculum.

CONCLUSIONS

Admidst of this COVID-19 crisis, it is crucial as the academic educational community learn from the experience. The COVID-19 epidemic may represent an enduring transformation in medical education with the advancement of telemedicine, hybrid teaching learning process, adaptive research protocol. Students and educators can analyze the effects of current changes in medical education to learn and
apply new principles and practices to the future.

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