Letter to Editor

Impacts of COVID-19 Pandemic on Medical Education and Students of Bangladesh

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Dear Editor,

The Coronavirus disease 2019 (COVID-19) pandemic is a public health disaster with massive and various social, financial, and health consequences (1), which is transforming the community in countless ways. It has affected lifestyle to economy, playground to pray-yard, primary education to professional education (2). The pandemic has led to unprecedented disruption in well-established, conventional face-to-face medical education and healthcare systems globally. It affects physical, mental, and social well-being of medical students as well as their intellectual skill to learn (3). Besides, high rate of infection and mortality of the physicians in Bangladesh all through the pandemic might be influencing future career plans of young graduates (4). These impacts have drawn limited attention and have been less discussed globally as well as in Bangladesh.

control the spread of highly contagious To COVID-19, governments all over the world have face-to-face teaching educational institutions(5). It lessens the range of gathering and interactions as well as increases physical distancing among the students, which potentially limits the transmission(6). The government of Bangladesh has closed all institutional activities since March 2020(4). As COVID-19 affected patients have been increasing in an exponential model, these types of interference were crucial to implement stay home approach at all points. But, at present, educational institutions, general to professional (e.g., Medical, Engineering), are facing numerous challenges due to prolonged closure(2). It causes student absenteeism at lectures due to their lack of interest in monotonous lectures that not have visual

stimulation and provide tiny opportunity for them to involve in discussions (3). COVID-19 has also forced a number of students to resume job to assist their families (1).

Undergraduate medical students, the future sustainable health systems expressed worry about sudden changes in curricular delivery, struggling with virtual lectures, loss of peer interaction, applied activities like dead body or model laboratory skills, study, class-basis professional examinations. examinations. ward activities involving direct patient contact, clinical thoughts experiences sharing, financial burden and changing aspect of future career Finally, mandatory one-year clinical plan (4, 7). internship, which is a vital practice to make a clinically independent and confident graduate physician, was affected due to panic and fears and many interns have left out or not started their internship (2).

COVID-19 pandemic introduces digital homeschooling worldwide by a variety of methods using various online platforms without any uniformity. Consequently, the of government Bangladesh commenced remote learning. Here, most of the students have access to digital devices, but not internet due to plentiful inadequacy. Sometimes distance education becomes a double-edged sword. Some faculty who are unusual with technology encounter difficulties with electronic equipment, and students who lack initiative and time-management abilities, online learning made it complicated to keep up(8). There is a distinguished disparity between medical educations with general education. Here, virtual learning might be helpful for theoretical knowledge but its effectiveness

for preparing future physicians as competent clinicians is still questionable (4).

An online learning setting, comprising asynchronous (e.g., recorded videos, podcasts) and synchronous (e.g., video conferences, virtual classrooms) distance education, and the introduction of innovative methods of student judgment has developed to face the challenges during and beyond the COVID-19 pandemic (7). During the changeover from traditional classroom teaching to tele-delivery of educational curriculum, medical students of Bangladesh have to overcome numerous social, economic, and cultural barriers (1). Now, the prolonged crisis has imposed serious implications on their lives, including their academic trajectories. This may lessen their potential of conceptual understanding of medicine, analytical skills, and critical thinking, which will decline their selfconfidence in clinical practice (7). It is thus crucial to review the usability of online learning approaches and to establish their feasibility and adequacy for medical students (3). The extent and degree of the impact are yet to be established. Hence, facing and tackling the related challenges may be based on the principles disaster management, including mitigation, preparedness, response, and recovery (9).

Though costs and benefits are inadequately recognized, educational institution closure has an enormous blow on students' learning (5). Subsequent physical distancing measures have resulted in continuous disruption of daily practices of medical students and institutions(7). Innovative transformations are also needed to overcome the impact of COVID-19 pandemic on medical education here in Bangladesh (4). Educational establishment closure is gambling with the potential of thousands of medical students. It will cost a lot to tone down the deficit as postgraduate students will also suffer in a sequel. Alternative revival options should be more realistic and logical to make a complete and safe physician for mankind.

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