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The Impact of Covid-19 on the Malaysian Education System

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Abstract
The recent outbreak of Corona Virus Disease 2019 (Covid-19) has affected society on a global scale, particularly in the areas of social sciences and behavioral aspects. Despite the alarming rate at which the virus is spreading, potential vaccines and treatments remain under clinical trial. Therefore, the most effective strategy to manage this situation would be through social distancing. In the context of the Malaysian education system, the multiple issues, and challenges, pending solutions due to the pandemic, were focused throughout this discussion on the effect of Covid-19 concerning virtual education. The findings on teaching and learning from home, utilizing technological advancement, group work, preparedness in education, alternatives by the government, internet access, and the student assessment process were highlighted in this concept paper on the impact of Covid-19 in Malaysia.

Keywords: Covid-19, Malaysian Education, Teaching, Learning

Introduction
With the recent emergence of Covid-19, the medical world has strived to understand the nature of the disease, specifically the symptoms involved, means of transmission, and contagious conditions upon infection. Although no vaccines or specific treatments were discovered, clinical trials are in progress, with the hope of making life-saving discoveries for the world population. As highlighted by the World Health Organization [WHO] (2020b), the early symptoms are dry cough, fever, and tiredness. As such, a person suffering from shortness of breath, inability to move or speak, and chest pain is a cause for alarm.

The world population has witnessed the rapid spread of the Covid-19 pandemic, with possible origins from a wet market in China selling frogs, birds, snakes, rats, and other dead and live exotic animals as food. These animals were suspected of carrying the virus currently threatening human health in unprecedented ways (Lan et al., 2019). Initially, WHO (2020a) reported a case of pneumonia in Wuhan City, China, on December 31, 2019, with 44 similar cases reported within only four days. On January 7, 2020, the Chinese authorities identified a new type
of coronavirus related to previous pneumonia cases. Since then, the virus has swiftly spread and reached 282 cases of infection within the same month, thus forcing all the activities, specifically educational activities, to be restricted.

Similarly, the cities of Lodi and Bergamo in Italy were impacted by the virus at approximately the same time, as observed by Rotondi et al. (2020) with regards to social sciences and behavioral aspects (Bavel et al., 2020). As specific vaccines are yet to be created for treatment, the most convincing strategy to manage the Covid-19 pandemic was through social distancing. Nevertheless, this concept proved to be challenging due to human nature, which essentially needed human interaction.

Locally, the first Covid-19 case in Malaysia was recorded on January 25, 2020, involving three Chinese citizens from Wuhan (Mat et al., 2020) and has continued spreading rapidly every week (Rampal & Liew, 2020), subsequently cresting the second wave with a total of 8266 cases (Abdullah, 2020b). The situation worsened when the Covid-19 cases went beyond imported cases to include local community members. Additionally, several cases demonstrated the ability of Covid-19 to infect individuals with no direct contact to the Wuhan market, where the virus originated from (Lan et al., 2019; Malaysian Ministry of Health, 2020), hence causing the restriction of all physical activities, including education.

From a few isolated cases that were epidemic, the rising number of infections led to a full-fledged pandemic haunting every individual. Epidemics are recognizable in situations where the spread of a disease surpassed the normal rate among a community within a certain period. Consequently, the epidemics evolved into pandemics when the number of cases spiked to a worldwide population (Suhaimi, 2020). Consequently, the pandemic caused concern by the fact that the virus was not contained within China but is currently spreading on a global scale. In this regard, Bavel et al. (2020) believed that the term ‘physical distancing’ was more accommodating to the current circumstance, as opposed to ‘social distancing’ in ensuring potential social bonding vital to human nature. Therefore, online interaction has gained focus as a means of boosting social movements virtually, in accordance with Bergman et al. (2020), who emphasized the need for physical distancing instead of a social one.

Although the Malaysian Ministry of Education [MMOE] (2020) initially published preventive measures to raise public awareness on Covid-19, the significant rise in positive cases led to the distribution of standard operating procedures as a guideline to ensure the health quality of school communities. For example, Abdullah (2020a) reported that up to May 16, 2020, 317 cases were reported, with 35% involving children aged under four years and 7% involving babies aged under one year. Although the majority of death cases involved adults aged 40 years and above, there was an exception of a 23-year-old girl’s demise due to Covid-19 (Abdullah, 2020c). Thus, this concept paper aimed to discuss and provide a holistic view of teaching and learning from home, the utilization of technological advancement, group work, preparedness in education, alternatives from the government, internet facilities, and student assessment methods due to the impact of Covid-19, specifically in the context of the Malaysian education system.
Teaching and Learning from Home
Regarding the shift in teaching and learning from a school-oriented process to a virtual platform through online learning from home (MMOE, 2020a), Hamzah in Tahir & Noorzali (2020) reported that most of the teachers were initiated into the concept of online learning through the implementation of Sekolah Bestari (Smart Schools). Several issues were discussed at the time, such as limited applications and the lack of technological infrastructures and internet access. Furthermore, Kamarudin et al. (2020) perceived open communication to be an under-utilized dimension by teachers, as information technology (IT) was not fully applied due to technical difficulties.

Hence, UNESCO (2020) suggested that teachers be given immediate training to enable familiarization with online learning techniques involving content, pedagogical methods, basic technological devices, free internet data, education materials, and peer guidance in meeting students’ needs. Besides, virtual teaching and learning from home was a complex task requiring strong community support from teachers, parents, guardians, school administrators, and student motivation to track the continuance of learning and the students’ progress in reaching optimum results as in physical classrooms (Khalid, & Quick, 2016), particularly in the wake of this pandemic (Cahyani, 2020).

Utilization of Technological Advancement
Leow et al. (2020) reported that online discussions impacted students differently. For example, the indirect exchange of information and experiences could induce a sense of belonging and communal engagement (Nasir et al., 2018a; Nasir et al., 2018b), whereas an indirect meeting absolved students’ fear in contributing information. Nevertheless, some students could not realize these values in situations where the discussion proved too overwhelming, emotional, or lacked professionalism.

On another note, online methods were perceived to limit the students’ willingness to pose questions. The synchronized nature of online discussions was deemed inappropriate in meeting every individual’s needs in a group. A similar situation was discussed by Simpson (2018), stating that students who coped well with the flow of discussion would inadvertently pose a threat to others who may feel excluded and lose self-confidence (Nasir et al., 2018a; Nasir et al., 2018b). Therefore, teachers were encouraged to explain the learning schedule prior to class hours and provide the necessary materials to prepare in advance, as students mostly relied on self-study to overcome the challenges in online classes (Rovai & Downey, 2010), especially during the pandemic (Wisneski et al., 2017).

Educational Application and Attitude
With the impact of the Covid-19 pandemic at the primary, secondary, and tertiary levels of the education sector, the advent of various current educational technologies did not require the physical occurrence in teaching and learning, particularly in current times. As such, the United Nations’ scientific and cultural organizations recommended the use of diverse technologies to enable the continuity of learning despite the constraints posed by the pandemic nationwide. Teachers could use online learning platforms to teach, interact, and provide virtual training sessions (Ali & Nasir, 2019; Min & Nasir, 2020), as many students currently have access to
technological equipment at home, hence resulting in the implementation of virtual learning in Malaysia (Jidin, 2020).

The type of online platform used also raised concerns among teachers and students, such as information delivery platforms, the sharing of materials, training provided to students, discussions and presentations, editing audio and video files, and slideshows used in the teaching-learning process during the Covid-19 pandemic. Besides, the implementation of e-learning introduced electronic media and information and communication technology in education, which included all the forms of educational technologies in teaching and learning. E-learning also enhanced students’ understanding and provided development in IT skills, specifically in terms of immediate access to information (Ali & Nasir, 2019). Leow et al. (2020) reported that students were required to participate in online group assignments based on easy access to materials and information. In this regard, students may face difficulties in implementing online learning due to movement control orders (MCO) and the current critical situation.

Group Work
During the MCO in Malaysia from March 13 to curb the spread of the Covid-19 outbreak, all the students were ordered to attend virtual classes from home. Nonetheless, several challenges were found in e-learning from home, as some subject matters required elaboration, especially in the form of complex tasks needing careful explanations and discussions by other team members. As the Covid-19 threat required the maintaining of physical distancing to reduce infection rates, the MCO period allowed group members to explore the utilization of potential materials in fulfilling the assigned tasks and identifying the challenges involved in a novel experience, such as virtual groups. Hence, individuals’ mental preparation, ability, and resources were the determinant factors in executing assigned tasks (MMOE, 2020a; 2020b).

Besides, students faced problems regarding time constraints, with insufficient time to comprehend the assigned tasks due to limited internet access, thus presenting a barrier in accessing information and task completion within the allotted time. Thus, effective learning methods could be highlighted by creating an effective learning schedule to complete tasks (MMOE, 2020b).

Preparedness in Education
The success or failure of homework completion depended on students’ commitment, specifically during the MCO period (MMOE, 2020a; 2020b). Hence, students needed to show commitment to completing homework and provide feedback to classmates. During this period, students needed to be highly accountable for the entrusted work as a measure of integrity and ethics, subsequently inculcating self-discipline while at home without procrastination and molding strong, disciplined, and trustworthy individuals. Furthermore, students’ ability to accommodate educational activities to the home environment is crucial, including the type of equipment utilized at home. For example, using laptops for typing, communicating, submitting important documents, accessing the internet, and having a dedicated study space significantly influenced students’ homework performance.

Additionally, the Internet is a critical source of access during this period, as the need for high-speed data access impacted educational performance at home. For example, a slow
network would affect the assigned work. In the MCO context, the key factor enabling task performance at home was digital communication and IT skills. Other factors include appropriate workspaces with desks, ergonomic chairs, and adequate lighting. Background images and voice clarity also needed consideration when participating in video presentations, as students participated in group work. (MMOE, 2020a; 2020b).

Alternatives Given by the Government
Based on a statement by the National Security Council (2020), Malaysians had to work and study from home during the Covid-19 pandemic, emphasizing the importance of having affordable and reliable internet access. For example, in multinational companies such as Microsoft, many changes were implemented in the Microsoft team applications, with the drastic increase of users from 12 million to 44 million a day worldwide (National Security Council, 2020). Thus, Ahmad (2020) recommended all the Malaysian higher education institutions to continue teaching and learning virtually. As quoted by the Malaysian Prime Minister from the National Security Council (2020), Malaysians should be given 1 Gigabyte of free data daily during the MCO period to support students’ and teachers’ virtual education (Abu, 2020).

Internet Requirements
With a gradual shift from conventional classrooms to a full-fledged virtual learning environment in local educational institutions, teachers and students resorted to online or distance learning in line with the social distancing enforcement on campuses. In this unprecedented situation, the availability of resources, such as advanced IT platforms and fast internet connections, were deemed essential, apart from basic computer facilities, such as laptops or personal computers. However, financial resources could be a vital component in handling and recovering from acute crises (Carvalho et al., 2016), as the abrupt closure of campuses imposed serious and unplanned financial burdens on students needing to leave on short notice. Therefore, the availability of emergency relief funds in the form of soft loans or private donations would aid students with daily expenses to continue studying.

Moreover, The Malaysia Internet Exchange (MyIX) association, under the Malaysian Communications and Multimedia Commission [MCMC] (2020), recorded a peak of 532 gigabytes per second (Gbps) in intermetal traffic peak during the MCO period from on March 18, as opposed to the previous record in 2019 at 500 Gbps. As such, MCMC observed that the internet traffic flow increased nationwide by 23.5 percent compared to the first week of MCO, and 8.6 percent in the second week, in line with Rizzato, Fenwick, and Fogg (2020). The average 4G download speed in Malaysia witnessed a drop, from 13.4 Megabits per second (Mbps) in early February to 8.8 Mbps in the last week between March 23 and March 29, indicating that the increase in data usage caused internet traffic congestion and the subsequent decline in download speed.

According to Abdullah (2020d), internet access was generally divided into three parts: homes, offices, and roads. For example, three Malaysian telecommunication companies carefully monitored residential areas to ensure smooth internet access and network coverage improvement. Additionally, the Minister of Communications and Multimedia (2020) affirmed
that telecommunication companies continuously strived to improve network coverage across particular residential areas with slow internet access.

Student Assessment Process
Regarding MMOE (2020), the postponement of national public examinations, such as the Sijil Pelajaran Malaysia (SPM), was inevitable in safeguarding students’ and teachers' health and safety. Additionally, following MMOE’s statement as quoted from Ahmad (2020), the Ujian Pencapaian Sekolah Rendah (UPSR) and Sistem Pentaksiran Tingkatan Tiga (PT3) for all the candidates for the year 2020 were canceled. Accordingly, Jidin (2020), as quoted from a private Malaysian satellite television provider, stated that the decision applied to all the government schools and aid schools, private schools, and other educational institutions registered under the Education Ministry. Furthermore, the Education Ministry made the right decision in revising the examination dates for the Sijil Tinggi Pelajaran Malaysia (STPM) and Sijil Tinggi Agama Malaysia (STAM) candidates to reduce teachers’ workload and pressure in completing the current syllabi.

Following the Covid-19 pandemic, social support systems may provide valuable relief to individuals severely affected by the crisis. For example, individuals from the affected groups may require psychological help or counseling to prevent mental or emotional crises leading to severe stress and depression. Hence, the affected local communities must be resilient and develop appropriate solutions to overcome potential risks through an open, trustful, and learning-oriented organizational culture (Sawalha, 2015).

Regarding Natasya Abdullah (2020), an assessment is an important learning aspect to be regularly conducted through remote online activities, such as assignments, projects, quizzes, and tests. Nevertheless, some parents, teachers, and students raised concerns about the fairness of online assessments. Also, the level of privacy and confidentiality in virtual education should be regarded to enable effective assessments. Although online assessment methods may seem new following the announcement by the Kementerian Pengajian Tinggi (KPT), practical assessments could pose difficulties when assessed virtually (MMOE, 2020a; 2020b).

Conclusion
The impact of Covid-19 on the Malaysian educational sector requires serious consideration in addressing the issue. As observed, over 1.5 billion students from over 156 countries could not continue physical schooling due to the worldwide Covid-19 pandemic (UNESCO, 2020). Furthermore, physical and social restrictions in preventing the Covid-19 spread was predicted to be a long healing process with no immediate solution in sight.

Therefore, the teachers' efforts in providing online learning platforms for students was essential (Ali & Nasir, 2019). Additionally, other stakeholders, such as universities, schools, and the government, needed to play active roles in support, commitment, and financial aids. For example, some form of financial assistance was required to enable students to spend on IT gadgets. Nonetheless, not every individual could afford to purchase laptops or tablets, particularly concerning families with financial and geographical constraints.

Thus, the hurdles regarding virtual education from home, the utilization of technological equipment, group-based projects, internet capacity, and assessment methods were acknowledged through the impact of Covid-19, specifically in the Malaysian education system.
The bottom line in this paper concerned the sense of awareness and togetherness of the local community in continuing the educational process despite the current odds. As such, courier services are recommended to send or receive educational materials, similar to traditional distance learning methods for individuals lacking internet access in rural areas, so that no students are neglected.

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