A Review of Psychological Impact on Students Online Learning during Covid-19 in Malaysia

Enba J. Thandevaraj, N. Azizah N. Gani, M. Khalid M. Nasir*

Universiti Kebangsaan Malaysia (UKM), Bangi, Malaysia
Email: enba.jenani@yahoo.com, nuraaziezah@gmail.com, *mdkhalid@ukm.edu.my

Abstract

As a result of the COVID-19 pandemic crisis, e-learning has become a necessary feature in all educational establishments such as schools, colleges and universities. Teachers and students are required to adapt with the online learning method to ensure it is carried out as usual even though they have difficulties in various ways. Some of them face depressions and anxiety. This paper reviews the psychological impact on students’ online learning during Covid-19 in Malaysia. Past studies determined students are affected psychologically and show symptoms of depression and anxiety. Nevertheless, many studies presented opposite results. This review suggests the government sector to take initiative in helping students with low access to the internet and gadgets which are the main requirement to be able to participate in online classes, and concurrently increase the engagement of students in virtual learning especially during this critical pandemic.

Keywords

Psychological Impact, Online Learning, Motivation, Anxiety, Covid-19

1. Introduction

Coronavirus also known as Covid-19 is a virus that has affected many lives. Looking at its massive spread, WHO has declared it as a pandemic. Therefore, most of the countries announced a lock down and everyone is required to work from home including those who are in the education sector. Due to the pandemic, students have gone through a roller coaster from attending physical classes every morning to studying online. Chung et al. (2020a) mentioned, the rapid transitions of Covid-19 pandemic have impacted students and lecturers in higher education institutions critically. Teachers and students around the world have faced many challenges using online platforms for teaching and learning. It
is supported by Shahzad et al. (2020), the effects of this pandemic are unpredictable and it gives impact to the education system; most of the countries had to adapt with the new teaching and learning method.

These sorts of rapid changes could somehow affect their mental health or well-being. According to Chung et al. (2020a), although it is undeniable that online learning is considered the best solution to ensure consistency of learning in the era of the “new norm”, there may be certain setbacks such as loss of human presence, detecting the incomprehension of students by facial gestures, cracking small jokes to light up the mood, student participation (Khalid & Quick, 2016), and communication that can be achieved more effectively in class. On the bright side, this pandemic has opened opportunities for many people in various fields including teachers and students. Toquero (2020) said that global pandemic has opened up opportunities for the nation to update its current methods of education and turn its focus on utilizing technology. Thus, this paper reviewed literature on the issues of psychological impact on students’ online learning during the Covid-19 pandemic.

2. Literature Review


The Covid-19 pandemic has affected the world in many aspects. According to Akat and Karatas (2020), each pandemic has had a sociological, economic and psychological impact on society and all the pandemics that occur have harmed and killed a lot of people. Throughout the period of time, all the countries affected by the pandemic were required to take action, including the education sector by enforcing the Standard Operating Procedure (SOP). As most countries started enforcing Movement Control Order (MCO), all sectors such as economy and health were required to find a solution to make their routine operate as usual and follow the procedure set by their respective government. Not to forget the education sector, where they have to stop all physical contact in school and start working from home. This is to ensure that teachers and students are not exposed to the virus.

Most education sectors chose to conduct online teaching-learning as a way to prevent the virus from spreading. Dhawan (2020) mentioned that, there was no choice but to switch completely to online teaching and learning for many academic institutions that were previously hesitant to change their traditional pedagogical approach. During this pandemic, students were unable to be at school and the lesson solely took part via online learning. Students often do not have physical interaction with the outside world and their psychological condition is somehow influenced by it. Most governments encourage those who feel mentally affected to seek help from the professionals around them or from the initiative set by the government itself. For instance, Karim (2020) stated the Ministry of Women, Family and Community Development in Malaysia formed a hotline as an initiative to provide psychological help for those who are affected by the
stay-home order which was extended to curb the spread of the Covid-19 outbreak at the beginning. The “Talian Kasih” hotline can be called by those who are dealing with emotional breakdowns due to the MCO to seek assistance and emotional support.

2.2. Psychological Impact on Students during Covid-19

Folkman and Lazarus (1984) define stress as “a particular relationship between the person and the environment that is appraised by the person as taxing or exceeding his or her resources and endangering his or her well-being” (p. 19). Schools should expect students to react to the pandemic in a variety of ways that will vary depending upon the students’ personal experiences and developmental level; however, it is likely that negative reactions may improve over time (Chafouleas et al., 2019). In conjunction to that, schools must be trained to discuss a wide range of psychological and physiological effects with the students, in addition to the academic requirements that would inevitably emerge as a result of the continued closing of the campus or schools.

Students are required to change their learning method from in-class to online learning. As stated by Sutarto et al. (2020) the learning process, initially was conducted face-to-face in the classroom, but has been shifted to home learning using the online system or distance learning (Nasir et al., 2018) through the use of various existing media. The online learning was used for their daily lesson and to assess their academic performance and it somehow causes the students to get stressed. It is supported by Irawan et al. (2020) where they mentioned one of the contributing factors to students’ stress rate is the pressure of online lecture tasks, which requires them to use online media that they have only learned and must comprehend instantly.

This pandemic does not only mentally affect adults but also students. Corresponding to Chang et al. (2020a) and Chang et al. (2020b), they pointed out the psychological effect of the public health crisis is long lasting. The worries about pandemic usually will dissolve after a period of time. However, the impact of normalizing new things and it might affect students’ academic achievement as well. Kamaludin et al. (2020) stated that fear and the risk to the health of a person can gradually dissipate as the pandemic reaches its tail end. Nevertheless, the idea of the disease itself and the desire to switch to a “new normal” will have a long-term psychological effect on the students. In exchange, this can influence the academic performance of the students.

2.3. Motivation

Motivation is one of the important aspects in every individual. It will help a person to perform better with determination. Motivation is needed for students and it can occur in various ways. Irvine (2018) stated that motivation is a meta definition of well-researched theoretical frameworks such as expectation-value with intrinsic-extrinsic, and involves, among others, a multitude of similar theo-
ries such as self-efficacy, objective theory, knowledge theories, preference theory, the theory of self-determination etc. However, many students around the world had to transfer from face-to-face teaching to an online learning system in the middle of the semester due to the COVID-19 pandemic.

In general, students have limited capacity to absorb information, and it is likely that combinations of learning modalities can result in cognitive exhaustion, undermining the ability to learn new information adequately (Agüera-Hermida, 2020). According to Unger (2007) mental wellbeing problems remain as the biggest barrier to academic achievement. It can impair students’ motivation, attention and social interaction (Nasir, 2020) which are the main reason for students to excel in education. Dogan (2015) suggests that the best factors of academic achievement include; teachers must have constructive verbal motivation to promote students’ academic achievement; teachers must display a positive mindset that helps inspire students, behaviors that are important to cognitive engagement (Baharudin et al., 2018) in learning environments. It would be able to inspire students to succeed academically.

2.4. Anxiety

Anxiety is a dynamic emotional state of tension, uneasiness, concern, and other uncomfortable feelings induced by the coming and potential danger of a person (Bauer, 1965). Reasonable anxiety is conducive to improving the brain’s reaction speed and alertness, thereby improving learning effectiveness and engagement (Chen, 2019; Hordacre et al., 2016; Nasir, 2020), whereas unnecessary anxiety decreases the interest of students in learning and academic success (Khng, 2016; Ramirez et al., 2016; Scanlon et al., 2020; Cheng, 2013; Soltanlou et al., 2019).

For example, in a recent study focused on Chinese medical college students, higher levels of anxiety were correlated with factors closely linked to COVID-19, such as a COVID-19-diagnosed patient (Cao et al., 2020).

Anxiety among students occurs during the lockdown because everyone was required to stay at home and all teaching and learning platforms took part virtually. Students’ lost connection with human presence (Nasir, 2020) therefore it affects them mentally and emotionally. Tian et al. (2020) said that due to the possible risk of death caused by COVID-19, separation and lockdown, and the abrupt shift in teaching mode has raised the level of anxiety and generated intense pressure on most people.

Covid-19 has also got students’ struggle to keep up the good result of their performance in learning that was usually done face-to-face. The determination to maintain a flying color result causes them unusual stress which also leads to serious injury. Patsali et al. (2020) said, due to the impact of Covid-19 on their performance, abnormal stress and depression among students are also associated with increased self-injury and suicide attempts. The decision taken by most governments around the world to prevent the massive spread and deaths has given a psychological effect on the public. Irfan et al. (2020) said the fear of death due to COVID-19 causes the government to take initiatives to monitor the transmis-
sion of the virus which has impacted people and students’ mental health. A largely unexplored observation is the psychological influence of COVID-19 on Malaysian students.

The 2019 Annual Report of the Center for Collegiate Mental Health found that anxiety continues to be the most prevalent issue among students who completed the Counseling Center Assessment of Psychological Symptoms, while doctors have reported that anxiety continues to be the most common condition of students seeking university counseling services. Cao et al. (2020) identify the level of anxiety among college students in China during the epidemic. The study showed how 7134 college students were affected to varying degrees during the outbreak. They found the proportion of students with mild, moderate, and extreme anxiety was 21.3%, 2.7% and 0.9%, respectively. The factors analyze: attitude, affect, motivation, perceived behavioral control such as each use of technology, self-efficacy, and accessibility; and cognitive engagement (Nasir, 2020). The researcher has listed a variety of scholastic variables and participants were asked to gauge their understanding of how each inspired them to seek schooling before introducing the stay-at-home order. In terms of their understanding of how each inspired them to seek schooling after the stay-at-home order was enforced, participants then ranked the same variables. As well as Islam et al. (2020) and Aguilera-Hermida (2020) concluded that depressive and anxiety symptoms are crucial among students.

2.5. Students’ Perception towards Online Learning

Online is a medium that has multiple names in academic articles, including cyber media, news websites, virtual media, e-media, network media, and modern media (Nasrullah, 2014; Nasir, 2020). As reported by Sujarwo et al. (2020) online learning is an education that takes place over the Internet. It’s generally claimed to be e-learning between new phrases. However, online learning is just one form of distance learning (Nasir, 2020). With regard to the change in teaching and learning from a school-oriented method to a virtual platform through online home learning, Tahir and Noorzali (2020) stated that through the introduction of Malaysian Smart Schools, most of the teachers were introduced into the idea of online learning. Besides that, Wang et al. (2013); Wilde and Hsu (2019) claimed that digital or online teaching means that students are physically distant from teachers and need a technology that facilitates the sharing. In conjunction to that, Bower (2019); Gonzalez et al. (2020); Wang et al. (2013) stated that interaction between students and teachers is mediated by technology, and the design of learning environments may have a direct effect on learning outcomes.

Several studies have discussed the challenges related to the implementation of e-learning. The pandemic has caused a lot of changes, learning activities that were previously in a traditional classroom setting switched to an online learning environment. Changes as such could lead to minor disruption in students’ well-being and ability to cope during the lessons. Students have found that online learning is beneficial for them, as they can get ample of access while listening to
lectures and doing assignments. Based on prior experience with technology, students gain self-efficacy with online learning and may need preparation and assistance to use learning resources and platforms before beginning an online course (Heckel & Ringeisen, 2019). Martin and Boliger (2018) discovered that introducing and working with online communication tools were essential communication among students while sending reminders and providing rubrics for assignments represented the most important benefit in student-teacher interactions (Nasir, 2020). Ultimately, once the student feels they have knowledge and information to help them, their use of the program would have a positive impact (Alghamdi et al., 2020; Yakubu & Dasuki, 2019).

Zaheer et al. (2015) found that many students were happy with online education, which further revealed that e-learning in countries where higher education institutions are small would help higher education. Besides that, Popovici and Mironov (2014) notice that it becomes very clear that by their effect on the learning experience, students are profoundly aware of the changes brought about by digital technologies. The involvement of technology allows students to think out of the box. Through online learning, students are able to sharpen their ideas by thinking critically and creatively. It also will enhance their participation by involving in all the activities conducted by teachers. Chisega-Negrilă (2015) and Nasir et al. (2018) disclosed that implementing online learning resources can contribute to enhancement in critical thought, maximization of student learning, and the quality of students’ participation.

Sufian et al. (2020) investigates students’ perception of the Online Learning System due to the COVID-19 pandemic. Students find that learning using online tools is interactive despite always having network connection problems. Students stated that using online tools are not difficult and at the same time trains them to get the work done. It shows a positive outcome on the use of online learning tools among students. While Agung et al. (2020) mentioned that carrying out online learning has many impacts. Some students found that during online learning, their IT literacy made strong progress. Students get to enjoy the experience of using online learning and it improves their skills on finding information. It also helps them to become independent and responsible in completing their task. Students have also mentioned it is a challenge because it required more reading on their own. On the other hand, it also showed that even though most of them had a poor internet connection and ample internet data/quota at their home, the students were committed to joining the online course. This is because they can get access to the resources used in the class anytime.

Ana et al. (2020) study on students’ perception on preparing themselves before joining the learning activities found that 24% of students stated it is easy to prepare for e-learning activities, 26% of students stated the learning material was sufficient, 21% stated the teaching material for online class were provided and 20% of the students mentioned the lesson plan aspect was adequate. The results are important as it allows the lesson to be conducted as planned. Students will definitely have problems attending classes if any one of the criteria is lacking. All
these criteria help students to get encouraged and allow them to participate in the online learning class.

3. Conclusion

There are many studies that have proven psychological impact on students due to COVID-19 and the changes of traditional classrooms to an online environment. This is in line with Sujarwo et al. (2019) who believe that learning practices can be conveniently carried out by learners anywhere as they are not constrained by time and space. Online learning seems to be the best choice for teaching and learning in a pandemic Covid-19, particularly for students who have good internet facilities. However, online learning has a negative effect (Aboagye et al., 2020; Putra et al., 2020; Sufian et al., 2020). For instance, students have trouble accessing online learning due to an insufficient network and have to use their mobile phones on an ongoing basis. This causes them to be left out from the lessons that were conducted and it affects their academic achievement. These factors lead students to have depression and anxiety (Kalok et al., 2020; Odriozola-González et al., 2020). It is suggested that the government sector must take steps to assist students with poor internet connectivity and gadgets that are the key prerequisite to be eligible to enroll in online courses. It will also serve to decrease the percentage of mentally impaired students due to their academic achievement. In short, this review paper highlights issues encountered by students and educators during the coronavirus pandemics. They were not prepared for a full online experience, internet issues, lack of gadgets and social support due to the depression and anxiety.

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Conflicts of Interest

The authors declare no conflicts of interest regarding the publication of this paper.

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