SARS-Cov-2 Lockdown Mediates Increased Use of Technology for Leisure: Implication for Development of Digital Hygiene

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Abstract

Digital activities has become the preferred modality to structure leisure time during SARS-Cov-2. It has led to increased use of digital technologies. Mr. A, 23 years old, unmarried male pursuing post-graduation belonging to a nuclear family contacted for management of excessive use of online technologies during the SARS-CoV-2 related lockdown period. The clinical interview technique was used for assessing the pattern and dysfunctions related to use of technologies. The case demonstrates the role of online activities like social media, online entertainment, and online gaming to cope with absence of access to offline leisure time activities during the SARS-CoV-2 lockdown. However, there is a need to create awareness that engagement in online leisure time activities can lead to excessive use of online activities in the absence of avenues for engagement in offline activities.

Keywords: SARS-CoV-2; Loneliness; Leisure; Digital activities; Digital hygiene.
SARS-CoV-2 pandemic, millions worldwide are experiencing a sudden change in their daily work and leisure routine. To follow the SARS-CoV-2 related lockdown norms in many countries, most individuals are working from home. This has caused an immense increase in the internet usage in the population which primarily used it to access news or information or online entertainment. But now use it for all work and leisure activities. Digital technology is now used extensively for virtual office meetings, connecting with family members, friends, for online entertainment and leisure tasks.

The available literature indicates that SARS-CoV-2 pandemic guided lockdown has led to increased use of digital technologies in the Indian context. As per available reports, there has been an average increase of 30% in internet-based technologies for completion of work and leisure activities during the lockdown period in India. Besides, the Silicon Valley of India, namely Bangalore, has witnessed the cellular network data consumption increase by 70% since the onset of lockdown [3]. Social media usage increased from 0.4 million in January 2020 to 20.3 million by 24th March 2020 [4]. The Social media has seen a 42% increase with an overall time spent increased to 274 minutes per week, whereas the time spent on use of chat services has increased by 43% to, 322 minutes per week [5]. Similarly, a 39% increase in download of games has been witnessed along with 44% increase in the time spent on online gaming. The number of gaming sessions has also increased from 5 to 7 sessions, with session duration increased to around 45 minutes from the earlier 30 minutes [5-7]. The online streaming of online video series viewed over smartphones has also shown an increase of 32% in its consumption in online entertainment category whereas a 52% increase was noted on time spent on watching movies over smartphones [7]. Thus, life in current times of SARS-CoV-2 pandemic and related lockdown revolves significantly around the use of technology and digital platforms for all aspects of life. It appears to be increasing challenges for the population in maintaining balance between the time spent on online and offline activities. The present case contacted the tertiary specialty clinic Service for Healthy Use of Technology (SHUT) for management of excessive use of online technologies during the SARS-CoV-2 related lockdown period.

Case report

Mr. A, 23 years old, unmarried male pursuing post-graduation, belonging to a nuclear family with no family history, suggests of mental health difficulties, reported to the SHUT clinic. Premorbid history indicates him to be an extrovert. He presented with a 3 weeks history indicating increased use of social media, online entertainment, online gaming, inability to complete his academic assignments, and irritability. His online use pattern indicated that before the start of the COVID-19 lockdown, he spent 3 to 4 hours each day on the mobile in the evening. The time spent online was primarily for social media networking, chatting, messaging, gaming, listening to music and watching online shows and movies. Before the SARS-CoV-2 pandemic related lockdown, these online behaviors did not affect his studies, engagement in offline physical activities, and interaction with family members. However, during COVID-19 related lockdown, his online usage pattern gradually became excessive over a period of three weeks. He started spending more time on social media, video chatting, messaging, and increased in number of sessions for playing online games. There was also an increase in watching online streaming series. He was watching a minimum of two movies or three – four episodes of streaming web shows per day. His usage pattern increased from 3 to 4 hours to 8 to 10 hours per day during the COVID-19 related lockdown. He experienced frequent dryness of eyes and decreased sleep. The increase in the use of online activities also led to a delay in initiation of sleep by 2 to 3 hours, and the presence of drowsiness and lethargy on a subsequent day. His engagement in physical activities decreased. The procrastination increased for academic and other offline activities. These aspects and increased time spent on online activities contributed to increases in interpersonal stress among the members of the family. He reportedly missed a deadline for submission of an online academic assignment.

He attributed the increase in online activities to an unstructured daily schedule for biological, social and academic tasks, the absence of non-addictive online technologies, and the sudden unavailability of offline modalities to have an enjoyable leisure time. The availability of offers for various online activities and increase in procrastination due to free time availability were also indicated to be factors that affected the desire to continue or to reduce the ability to log out from online activities. Besides, he was engaging in frequent rationalization like “I should enjoy now as the lockdown will end soon”, “I can complete all academic tasks at the end of lockdown”, I deserve this enjoyment as I usually work hard for academics”, or “There is still lot of time for the lockdown to end, I will complete my academic tasks before it ends” which also contributed in maintaining his increased usage of online activities. These rationalizations also minimized his willingness to curtail his excessive online use as well. The family members also became critical about this excessive online use. To deal with these unpleasant emotions caused by their unkind and critical remarks, he further increased his engagement in social media and online entertainment as a way to regulate and enhance his mood. He attempted few changes in his online usage pattern for a few days i.e. by limiting smartphone usages to certain hours, engaging in indoor offline leisure activities and spending time with family members. However, after 3 to 4 days of his effort, he still reported craving for online activities and attributed it to lack of novelty in the available offline leisure time activities.

Discussion

This case demonstrates the role of online activities like social media, online entertainment, and online gaming as a method to cope with the absence of access to offline leisure time activities during the COVID-19 lockdown. Studies have shown that if leisure time is not optimally arousing, it can be experienced as boredom [8]. Lack of engagement in meaningful activities to overcome boredom has been further linked to consequences such as psychological distress, addiction and increased use of mobile phone or internet, and social networking [9]. Also, psychological distress like depression has been found to have a stable correlation with problematic internet use in studies conducted among young adults in India [9-12]. Also, once an individual becomes engaged in heavy use of online activities, they are known to have a declining preference to engage in offline leisure activities like sports, exercise [13].

Keeping into account the above findings, we can comprehend that in this case, the problematic use of online entertainment, social media appears to have been initiated through a coping pathway to overcome boredom, loneliness, lack of interpersonal interactions, lack of novelty, psychological distress or through relationship pathway as a modality to satisfy needs of affiliation, affection, validation of thoughts, emotions and
reassurance or its combination as well during the COVID-19 lockdown. However, with a gradual lapse of time, it would have activated the internet addiction pathway where the individual experiences craving for online use, loss of control over use, strong urges to use despite unpleasant consequences. Thus, a number of these pathways likely play a role in initiating and maintaining of problematic online use. A number of these pathways leading to dysfunctional use of internet have been proposed by Billieux [14].

Thus, the use of online technology in times of COVID-19 lockdown has helped in the near seamless transition from offline networks to digital interface for continuing with work commitments, social communication, information seeking, and for fulfillment of leisure activities. However, there is a need to create awareness that engagement in online leisure time activities is used to overcome boredom, loneliness, psychological distress or fulfill the psychological needs of affection, affiliation and validation. However, there is a need to create awareness that engagement in online leisure time activities can lead to excessive or addictive use of online activities in the absence of avenues for engagement in offline activities. Therefore, in the times of COVID-19, digital hygiene is crucial in maintaining the healthy use of technology. Digital hygiene suggests that individual are to maintain consistent patterns for sleep – wake schedules, meal timings, daily online work structure, online leisure activities, online and offline family time/rituals, and optimal engagement in exercise routines to ensure healthy use of technology which can help in overcoming boredom, loneliness and psychological distress especially during the challenging times of COVID-19.

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Research involving Human Participants and/or Animals: All procedures performed in studies involving human participants were in accordance with the ethical standards of the institutional and/or national research committee and with the 1964 Helsinki declaration and its later amendments or comparable ethical standards.

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