



Impact of Social Media on the Health of Individuals during the COVID-19 Pandemic: A Systemic Review

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Authors' contributions

This work was carried out in collaboration between both authors. Both authors read and approved the final manuscript.

Article Information

DOI: 10.9734/JPRI/2021/v33i60B34837

Open Peer Review History:

This journal follows the Advanced Open Peer Review policy. Identity of the Reviewers, Editor(s) and additional Reviewers, peer review comments, different versions of the manuscript, comments of the editors, etc are available here: <https://www.sdiarticle5.com/review-history/79789>

Review Article

Received 18 November 2021
Accepted 22 December 2021
Published 24 December 2021

ABSTRACT

Utilization of online media in the hours of Covid-19 pandemic contrarily affects the soundness of people. Patients had the option to take treatment for minor sicknesses through media transmission administrations. After the ascent in the number of instances of Coronavirus, a couple of patients were treated for Covid through telecom administrations given by specialists. Online media helped in conveying data about the pandemic. It has helped in proceeding with the academic year on the web. Individuals living at various places had the option to interface with one another as a result of web-based media. Then again there were many symptoms of utilizing online media like conveyance of falsehood, visual illnesses, uneasiness issues, sorrow, stationary way of life, weight and other pressure disorders. Although school terminations might be impermanent, further developed admittance to and utilization of such stages might rush the all inclusive acknowledgment of advanced devices over the long haul. Conduct changes brought about by expanding dependence on computerized contraptions might bear even after the COVID-19 pandemic. This danger should not be disregarded using social media like distribution of misinformation, ocular diseases, anxiety disorders, depression, sedentary lifestyle, obesity, and other stress disorders. In spite of the fact that school terminations might be impermanent, further developed admittance to and utilization of such stages might hurry the all-inclusive acknowledgment of computerized

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apparatuses over the long haul. Social changes brought about by expanding dependence on computerized contraptions might persevere through even after the COVID-19 pandemic, and this is a danger that ought not be overlooked. This article aims to analyze and review the use and side effects of social media and health awareness during COVID-19 period. This study drew on data from various research articles on the relationship between social media's effects and side effects. Social media and health awareness have exhibited recent trends. Discussion of potential approaches to meeting the growing demand for social media and management of health has further increased concerns about the ocular diseases, obesity, mental health and telemedicine.

Keywords: Obesity; ocular diseases; mental health; telemedicine; social media.

1. INTRODUCTION

COVID-19 infection has turned into a significant general wellbeing worry throughout the planet. In light of the current COVID-19 flare-up, general wellbeing exhortation and government activities have forced lockdowns and limits. While these limits serve to diminish contamination rates, they can have adverse results by confining normal day by day exercises, actual work (PA), travel, and admittance to many kinds of activity (e.g., shut rec centres, no gathering get-togethers, more noteworthy social distance) [1]. Several countries are instituting curfews, limiting or prohibiting outdoor activities participation. Such restrictions put a strain on people's health by potentially jeopardizing their physical fitness.

Actual inertia and poor emotional wellness are among the main danger factors for significant illness grimness overall [2]. This is valid for everyone and more seasoned people and persistently sick patients, who are more defenseless against COVID-19-related mortality. Actual work is connected to school-related exercises, dynamic transportation, and commitment in sports for kids and youths [3]. Because schools have been closed due to the COVID-19 epidemic, physical activity participation has been hampered, raising the risk of long-term sedentary behaviour.

According to researchers, most underdeveloped nations face significant challenges in avoiding the spread of irresistible illnesses because of an absence of clinical offices and assets [4,5]. Given the apparent inferiority of these countries' healthcare systems, public awareness of infectious diseases leads to behavioural adjustments among the general populace, resulting in partial treatment; this awareness lessens the strain and financial burden on medical institutions.

The WHO, medical services suppliers, and administrative specialists utilize web-based media channels to address basic general medical problems throughout the planet. They can teach residents and medical services experts about an assortment of points, from antimicrobial obstruction difficulties to subjects like antagonistic response detailing. Mindfulness building efforts that exploit the huge scope, expansiveness of reach, and quickness of online media stages to convey rapidly, adequately, and effectively are at the core of these projects. It tends to be financially savvy to utilize web-based media to help anticipate and control irresistible illnesses [6].

Web-based media is progressively utilized for news talk, government funded schooling, and grassroots getting sorted out. The general wellbeing local area can exploit social medias expansive reach to enhance honest, significant messages around general medical problems.

Luckily, a few specialists are attempting to spread the most recent information through online media, scatter articles distributed by worldwide definitive magazines as well known science, and lead free clinical discussion via web-based media. Twitter has arisen as a clever way for doctors to coordinate and supporter for strategy change, and battle deception in the midst of public wellbeing emergencies. Government reactions that were appropriated through web-based media have been progressively vital in fighting Infodemic and advancing precise and solid data for general society.

The pandemic has advanced so quickly that finding COVID-19 inoculations or treatments has been focused on throughout constant checking reconnaissance with online media.

2. BENEFITS OF USING SOCIAL MEDIA

During the SARS-CoV-2 outbreak, online media has a huge benefit in rapid delivery of educational content. For example, Chan et al, [7] designed an infographic demonstrating flying course treatment in patients with COVID-19, whether suspected or confirmed. It was distributed via Twitter and WeChat, and within a few days, demands for translation into more than ten vernaculars had been received. Furthermore, the spread enabled the infographic to be tailored to the unique peculiarities of each clinical consideration context.

Presumably the central characteristics of electronic media assembles the quick spread of displays at the run of the mill, public, and general levels has been a component of this pestilence. Sharing shows about treatment, customized security hardware, or essentially ideas for suitable undertakings in clinical asset restricted circumstances has now turned into the new ordinary. This permits places with less capacity to cultivate shows at an okay rate to finish or adjust others' shows to their particular condition or assets in insignificant time, which was outlandish 20 years prior when most electronic media stages had not yet been made. In this amazing copy, we examined the essential advantages and disadvantages of utilizing on the web media stages during the pandemic.

One more benefit of web-based media stages during the COVID-19 pandemic has been the chance of organizing cooperative exploration projects, reviews, and multi-focus studies. More benefit of web-based media stages is supporting proceeded with clinical schooling through online live and recorded online courses through various media sources. Various investigations have effectively utilized web-based media information to assist with recognizing and identify flare-ups of irresistible infections and to decipher public perspectives, practices, and discernments.

Patients may have to pay because so few telemedicine initiatives are launched on a temporary basis. We believe that social media, such as WhatsApp, Facebook and WeChat, can help solve this complex situation (social media in China). Patients can receive health consultations or appointments through a secure telecommunications channel. Smartphone apps based on image and text information can be used for immediate communication and speedy decision-making. Despite its limitations, this

method can assist patients in determining the severity of a condition and making an early diagnosis.

Conversely, this alternate strategy aids in the rapid elimination of SARS-CoV-2 symptoms and the avoidance of long lines in hospitals and emergency rooms, both of which are helpful to the virus's transmission. We also aggressively educate patients of personal social media information and create interaction with patients in clinical practice so that we may provide professional guidance and follow-up services. Online media can improve the probability of screening or treatment mediations getting to when fitting, including where and when (and when not) to look for care and how to be dealt with assuming sick.

In confinement period, through online media individuals could interface with their loved ones living in another piece of the continent. People have become more mindful of their environmental factors and have become hesitant. Mindfulness about the requirement for actual wellness expanded during the pandemic, so individuals practiced at home by watching videos on the web. Certain individuals took up a couple of side interests online which they couldn't prior because of time imperatives. As far as appropriations, studies have shown that the spread of consistent composition through online media stages (Facebook, Twitter, etc) extends the quantity of downloads, requests, and references of the articles, which, with the COVID-19 pandemic, are characteristics that have undeniably permitted speedy dispersal of data all throughout the planet, in spite of uncommonly diminished distribution times, which have gone from significant length of taking care of to days or hours.

3. DISADVANTAGES OF SOCIAL MEDIA

As indicated by the WHO, they are right now battling a global plague as well as a web-based media Infodemic, for certain news sources guaranteeing that the Covid is the main genuine web-based media infodemic on the grounds that it has speed up data and deception throughout the planet, energizing among individuals [8]. Web-based media impacts perspectives, convictions, standards, and behaviours that subvert general wellbeing.

A national random sample of 40,337 children aged 2 to 17 years old in the United States was

studied to see if there were any links between screen usage and psychological wellbeing. Moderate screen time (4 hours out of every day) was connected to bring down mental prosperity, including less interest, lower discretion, greater distractibility, more trouble making companions, less enthusiastic strength, being more hard to really focus on, and powerlessness to follow through with responsibilities, as per the study [9].

The mental affect of COVID-19 among people who are tried positive is another worldwide wellbeing concern. Irresistible flare-ups fundamentally influence the psychological wellness of the patients who might encounter nervousness side effects, dread, and an absence of trust in regards to the vulnerabilities in treatment and wellbeing results. Covid may likewise affect the mental prosperity and achievement of clinical experts, especially the people who function as state of the art providers. As COVID-19 cases test the restrictions of worldwide wellbeing structures, a critical number of clinical consideration suppliers are working outside of their ordinary timetables to satisfy the expanded need for fundamental treatment.

Misinformation and misrepresentations about COVID-19 are obstructing the act of sound practices, (for example, hand-washing and social distance) and advancing wrong practices that add to the infection's proliferation and, at last, poor physical and emotional wellbeing impacts. In India, for instance, a dad of three was accounted for to have ended it all subsequent to learning he had COVID-19 [10]. One more illustration of dangers related to chronic frailty correspondence can be found in Nigeria, where wellbeing authorities found various instances of chloroquine (a jungle fever therapy) glut after expressing the medication's supposed achievement in treating COVID-19 spread through the country [11].

Expanded advanced screen time, close to work, and restricted open air exercises have been connected to the start and movement of nearsightedness, which could be exacerbated during and after the COVID-19 pandemic plague. While school terminations might be impermanent, developing admittance to, utilization of, and dependence on advanced contraptions might have long haul unfavorable ramifications for youth improvement. Bringing issues to light among guardians, youngsters, and government associations is basic to forestalling

myogenic propensities from being set up during this time.

It is obscure whether more seasoned youngsters (matured 9-13 years) would be more nearsighted in the event that they go through a more drawn out time of home repression. Assuming that is the situation, the time of ecological change might be the principal hazard factor for nearsightedness advancement. The more youthful kids are more touchy to the natural change than the more seasoned youngsters. Youngsters aged 6 to 8 years might encounter a significant period for nearsightedness advancement. Inside this age window, the pliancy of nearsightedness is high and nearsightedness control might be more straightforward. Past this age window, the pliancy of nearsightedness is low and nearsightedness is more enthusiastically to control during natural changes.

The required stay-at-home orders have severely interrupted normal living routines, which may result in significant behavioral changes, notably dietary habits, in this type of natural experiment "forced" by an unanticipated emergency. Increased unstructured time may lead to overeating and increased screen usage. Furthermore, social isolation may worsen lifestyle behaviors by increasing sedentarism, decreasing outside time, and increasing weight gain. The pandemic's increasing social isolation, loneliness, boredom, anxiety, and despair may have played significant roles in lifestyle changes. The biggest predictor of weight increase in our patients was self-reported anxiety/depression. Emotional disturbances and mood disorders are widely recognized to influence dietary choices, with the desire for comfort foods, such as processed snacks and sweets. During the COVID-19 pandemic, there was an increase in the rate of depression and anxiety disorders.

In a few investigations, the area or living spot was related to psychological wellness issues among concentrate on members. Close contact with COVID-19 patients affected psychological wellness and prosperity. For instance, suspected or affirmed cases among relatives or family members were altogether connected with burdensome indications among ladies medical services suppliers, which added psychosocial trouble notwithstanding their word related pressure in clinics where they invested the most energy during COVID-19.

The severe detachment techniques have impacted and tested diverse clinical regions. In numerous nations, dental specialists had to quit working during isolation until additional warning. During the scourge anticipation and control period, individual facilities and short term offices simple shut. In light of the trouble of looking for clinical treatment, it might create the setback of treatment and exasperate the condition. Postponed therapy of specific illnesses might even be lethal, like epiglottitis, oral malignant growth, etc. Actual distress and dread of the pestilence can likewise influence the mental condition of patients, prompting nervousness and outrage. Since certain medications are physician recommended drugs, they are not accessible in drug stores. The absence of medications and the aggravation of sickness also increment patients' tension.

One more critical hindrance to the spread of information and online media is the air pocket channels, a thought that teaches us about a tweaked natural framework towards the customer, wherein the computations through the data assembled from a comparable customer expect their tendencies and yield results that are believed to resemble any likeness of that customer. These air pockets make a circle of similar substance that keeps the customer from seeing other different sources to segregate realities. This idea applies to any issue or sickness that is directed in web records or through internet based media stages. The lay public accesses fundamental and in vitro center around results principally through reports, though this data is available to the clinical local area. This data, joined with the summed up dread of pollution and clinical thought frameworks overburden, comes down on patients to request such fundamental medicines for themselves or their families, and experts may feel obliged to endeavour them, regardless, when there is no incredible verification to help their use thus.

4. DISCUSSION

Tales can cover themselves as valid disease anticipation and control methodologies and have genuine ramifications whenever focused on over proof based rules. For example, a pervasive misinterpretation that usage of significantly figured alcohol could clean the body and kill the disease was streaming in different bits of the world. Following this deception, around 800 people have passed on, while 5,876 have been hospitalized and 60 have made absolute visual insufficiency right after drinking methanol as a fix

of Coronavirus [12,13]. In India, 12 people, including five children, became cleared out ensuing to drinking liquor created utilizing harmful seed *Datura* (neglected plant in neighboring discourse) as a fix to Covid disease [14-23]. The setbacks supposedly watched a video by means of online media that *Datura* seeds give safety against COVID-19. All internet based media information sources should be assessed for lie before its passed on a colossal scale. People with data about the information should report any discussion expecting they turn out any on the electronic media. Schools should have recently a confined screen energy for youngsters, to hinder development of nearsightedness. Facebook, Twitter, and online papers have been perceived as the best stages for truly checking out distortion and dissipating stories, disgrace, and fear roused thoughts among the general people. Epidemiological disapproving of online media stages wires disengaging, gathering, examining on the web printed information continually, and concocting control measures. In spite of the way that electronic media information are observational, they can improve standard reconnaissance framework information. Because of dishonesty concerns identified with COVID-19, WHO's hazard correspondence pack dispatched another data stage called WHO Information Network for Epidemics, which utilizes online media enhancers to offer fitted data to target parties.

5. CONCLUSION

The utility of web-based media is advantageous is up to a degree past which it prompts negative impacts on wellbeing. Subsequently its utilization ought to be confined uniquely for specific important exercises.

CONSENT

It is not applicable.

ETHICAL APPROVAL

It is not applicable.

COMPETING INTERESTS

Authors have declared that no competing interests exist.

REFERENCES

1. Hossain M.M., Sultana A., Purohit N. Mental health outcomes of quarantine and

- isolation for infection prevention: A systematic umbrella review of the global evidence. SSRN Electron. J;2020. DOI: 10.2139/ssrn.3561265.
2. Kumar A, Srivastava PK, Takeuchi Y. Modeling the role of information and limited optimal treatment on disease prevalence. *J Theor Biol.* 2017;414:103–119. DOI: 10.1016/j.jtbi.2016.11.016.
 3. Misra AK, Rai RK, Takeuchi Y. Modeling the control of infectious diseases: Effects of TV and social media advertisements. *Math Biosci Eng.* 2018;15(6):1315–1343. DOI: 10.3934/mbe.2018061 Available: <https://www.aimspress.com/article/10.3934/mbe.2018061>.
 4. Misra A, Sharma A, Shukla J. Stability analysis and optimal control of an epidemic model with awareness programs by media. *Biosystems.* 2015;138:53–62. DOI: 10.1016/j.biosystems.2015.11.002.
 5. Al-Surimi K, Khalifa M, Bahkali S, Ashraf EM, Househ M. The potential of social media and internet-based data in preventing and fighting infectious diseases: from the internet to twitter. *Adv Exp Med Biol.* 2017;972:131–139. DOI: 10.1007/5584_2016_132. [PMC free article]
 6. Benetoli A, Chen T, Aslani P. How patients' use of social media impacts their interactions with healthcare professionals. *Patient Educ Couns.* 2018;101(3):439–444. DOI: 10.1016/j.pec.2017.08.015.
 7. Chan AKM, Nickson CP, Rudolph JW, Lee A, Joynt GM. Social media for rapid knowledge dissemination: early experience from the COVID-19 pandemic. *Anaesthesia*;2020. Epub ahead of print.
 8. Chan AKM, Nickson CP, Rudolph JW, Lee A, Joynt GM. Social media for rapid knowledge dissemination: early experience from the COVID-19 pandemic. *Anaesthesia*;2020. Epub ahead of print.
 9. Hao K, Basu T. The coronavirus is the first true social-media infodemic. 2020. [2020-02-12]. Available: <https://www.technologyreview.com/s/615184/the-coronavirus-is-the-first-true-social-media-infodemic/>
 10. Twenge JM, Campbell WK. Associations between screen time and lower psychological wellbeing among children and adolescents: evidence from a population-based study. *Prev Med Rep.* 2018;12:271–283.
 11. Wallen J. Coronavirus: Indian man 'died by suicide' after becoming convinced he was infected. *Telegraph.* Telegraph; 2020 [cited 2020 Mar 28]. Available: <https://www.telegraph.co.uk/global-health/science-and-disease/coronavirus-indian-man-died-suicide-becoming-convinced-infected/>
 12. Busari S, Adebayo B. Nigeria records chloroquine poisoning after Trump endorses it for coronavirus treatment. *CNN*; 2020 [cited 2020 Mar 28]. Available: <https://edition.cnn.com/2020/03/23/africa/chloroquine-trump-nigeria-intl/index.html>.
 13. Aljazeera. Iran: Over 700 Dead after Drinking Alcohol to Cure Coronavirus. *Aljazeera*;2020. Available: <https://www.aljazeera.com/news/2020/04/iran-700-dead-drinking-alcohol-cure-coronavirus-200427163529629.html>. Accessed June 4, 2020. [Google Scholar]
 14. Hassanian-Moghaddam H, Zamani N, Kolahi A-A, McDonald R, Hovda KE. Double trouble: methanol outbreak in the wake of the COVID-19 pandemic in Iran-a cross-sectional assessment. *Crit Care.* 2020;24:402.
 15. Staff Reporter. Twelve Taken Ill after Consuming 'Coronavirus Shaped' Datura Seeds. *The Hindu.* Andhra Pradesh, India: The Hindu;2020.
 16. Acharya S, Shukla S, Acharya N. Gospels of a pandemic-A metaphysical commentary on the current COVID-19 crisis. Available: <https://doi.org/10.7860/JCDR/2020/44627.13774>
 17. Arora D, Sharma M, Acharya S, Shukla S, Acharya N. India in "Flattening the Curve" of COVID-19 Pandemic-Triumphs and Challenges Thereof. *Journal of Evolution of Medical and Dental Sciences.* 2020;9(43):3252-6. Available: <https://doi.org/10.14260/jemds/2020/713>.
 18. Bawiskar N, Andhale A, Hulkoti V, Acharya S, Shukla S. Haematological Manifestations of Covid-19 and Emerging Immunohaematological Therapeutic Strategies. *Journal of Evolution of Medical and Dental Sciences.* 2020;9(46):3489-95. Available: <https://doi.org/10.14260/jemds/2020/763>.
 19. Burhani TS, Naqvi WM. Telehealth--A Boon in the Time of COVID 19 Outbreak.

- Journal of Evolution of Medical and Dental Sciences. 2020;9(29):2081-5.
Available:<https://doi.org/10.14260/jemds/2020/454>.
20. Butola LK, Ambad R, Kute PK, Jha RK, Shinde AD, DMIMS W. The Pandemic of 21st Century-COVID-19. Journal of Evolution of Medical and Dental Sciences. 2020;9(39):2913-9.
Available:<https://doi.org/10.14260/jemds/2020/637>.
21. Dasari V, Dasari K. Nutraceuticals to Support Immunity: COVID-19 Pandemic-A Wake-up Call. Journal of Clinical & Diagnostic Research. 2020;14(7).
Available:<https://doi.org/10.7860/JCDR/2020/44898.13843>.
22. Dhok A, Butola LK, Anjankar A, Shinde AD, Kute PK, Jha RK. Role of Vitamins and Minerals in Improving Immunity during Covid-19 Pandemic-A Review. Journal of Evolution of Medical and Dental Sciences. 2020;9(32):2296-301.
Available:<https://doi.org/10.14260/jemds/2020/497>.
23. Gawai JP, Singh S, Taksande VD, Sebastian T, Kasturkar P, Ankar RS. Critical Review on Impact of COVID 19 and Mental Health.
Available:<https://doi.org/10.14260/jemds/2020/470>.

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Peer-review history:

*The peer review history for this paper can be accessed here:
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