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Global impacts of pre- and post-COVID-19 pandemic: Focus on socio-economic consequences

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ABSTRACT

On March 11, 2020, the novel Corona virus disease (COVID-19), was described as a pandemic by World Health Organization (WHO). Globally, the COVID-19 has not only affected the public health socially but also has rigorously affected economically. Substantial declines in income, increase in unemployment, and distractions in the transportation, amenities, and industrial sectors are amongst the major concerns of the pandemic disease extenuation. Furthermore, the governments of most of the countries underestimated the menaces of COVID-19 spread and were typically responsive for the calamities in their respective countries. As outbreak of this pandemic is not likely to wane in the nearby future, preventive actions are prerequisite to prevent infection spread, save people lives and also to save the economic influence. In this review, based on the present knowledge and available literature, we have demonstrated the various aspects of pre-and post-COVID-19 effects over the social and economic phases worldwide. Moreover, the evidence based data have been summarized regarding threats, social influences, scientific upgrades, moral dynamics, stress and adapting in the pre- and post-COVID-19 situations.

1. Introduction

The present day coronavirus disease 2019 (COVID-19) pandemic was originated from Wuhan city, Hubei province, China in December 2019. The outbreak of COVID-19 pandemic has mostly effected the human health and has severely been observed as a reason for increased death cases all over the globe. The pandemic has not only impacted general human concerns, but also caused heartbreaking financial and political emergencies in the infected nations. COVID-19, aside from being a threat to the world, has also been recognized as a major cause of disparity and insufficiency of social progression [1]. The name COVID-19 has been originated as ‘CO’ means ‘crown,’ ‘VI’ for ‘infection,’ and ‘D’ for illness, and 19...
The COVID-19 outbreak was firstly reported in December 2019 in Wuhan City, Hubei Province, People’s Republic of China, and the infected patients were diagnosed with symptoms of intense respiratory disorder, headache, fatigue, throat pain, mild fever and others [4,5]. Specifically, a few cases were confirmed in African nations, including Egypt, Algeria, and Nigeria [6]. As per reports, this has been found to be as an irresistible sickness out-break in China since 1949. It is an ultimate fight since the infection has spreaded so quick with greater predominance, and the counteraction of the transmission has significantly affected almost all the individuals from diverse nations [7]. However, at worldwide level, the strategy to control the spread of infection through this virus need to be availed as soon as possible [8]. Most specifically, three queries should be answered, including (i) how to take the crisis reaction activities viably in various nations; (ii) how to activate assets rapidly with vital ways; and (iii) how to support individual’s professional from different sectors effectively. Proficiently, control of the irresistible sources, hindering the spread courses, and ensuring the susceptible populace few crucial steps and could play significant role in the prevention as well as monitoring of the infection spread [9,10].

1.2. Initial approaches against pandemic crisis

In managing the outbreak, countries like China has firstly attained the method of fitting intercessions into neighborhood arrangements, from rapidly finding the tainted individuals, followed by close associates and putting them in the isolation conditions, to promote essential cleanliness measures to general society [11–13]. By adjusting reaction strategies to the neighborhood setting, it might abstain from barring the city when it isn’t required, and furthermore keep from a significant flare-up without making any move. These strategies were later followed by other nations. Under the solid initiative of the government agencies of individual countries, the preparation for the crisis reactions has been successfully advanced. For example, in China a Joint Prevention and Control Mechanism of the State Council was organized to control the outbreak, clinical salvage, logical exploration and worldwide participation [13]. Moreover, countries including India, USA, France, Italy, Russia and others have applied these strategies, but also have applied few other strategies for mitigating the spread of the infection. Furthermore, clinical experts, physicians and doctors have been allotted by the regulatory agencies of individual nations to execute crisis reactions such as clinical cure, epidemiological checkups, and environmental sanitization [5,25,34].

1.3. Empowering individuals proactively to fight against COVID-19

It is critical to protect the people, specifically the working class and daily wages workers, from the contamination and in these circumstances all occupants in the potential hazard territories were urged to remain at home, which is a compelling method to obstruct the transmission courses. Initially, the laborers and volunteers showed with the symptoms were proactively taken for diagnosis and screening for the presence of infection in the body. These diagnostic approaches helped in actualizing the number of positive cases and also for arranging appropriate measures by administrations, for example, driving patients to the portable medical clinics [11]. Simultaneously, from clinical consideration side, the clinical specialists and attendants buckled down in the medical clinics, to screen the speculated cases, give clinical consideration to the affirmed cases, and took effective measures to save serious patients. The epidemiologists working in communities for regulating sickness and prevention of infection gave the factual outcomes regarding the propagation of epidemiological informations effectively.

2. Effect of Covid-19 outbreak

COVID-19 has effected everyday life of humans and has hindered the worldwide economy. This pandemic also impacted a social life of people all over the world. This infection has spreaded all over the globe, almost in 213 countries as per WHO reports, and has showed severe implications over countries economic and health systems [12,13]. Many countries locked their facilities, amenities, educational institutions, industrial sectors, daily usage marketplaces and others, to prevent the spread of this infections [14–15]. The different trades and business sectors have been severely influenced by this infection. Apart from these some significant impacts and concerns over the healthcare services, economy and social life has been discussed.

2.1. Human services (healthcare) impacts

- Difficulties in the identification, isolation and treatment of suspected or infected patients.
- Overburden of the medical and clinical personals.
- Patients suffering or diagnosed with other diseases are effected due to ignorance.
- Overloaded cases decreased the medication facilities in medical shops.
- High assurance is needed.

2.2. Monetary (economy) impacts

- The accumulation of basic products has been slowed and reduced.
- Disruption in the flexible range of stuffs.
- Loss in the national and global trade.
- Meager income in the global market.

2.3. Social impacts

- Service areas do not found any options to manage their apt support.
- Withdrawal or deferment in international or national sport sectors.
- The tourism sectors have been severely affected.
- Prohibition over various festive occasions.
- Unnecessary apprehensions amongst the public masses.
- Distancing from family, friends and relatives.
- Shut down of the cafeterias, restaurants, shops, recreation centers, gyms etc.

This COVID-19 has influenced the wellsprings of flexibly and impacts the worldwide economy. There are limitations of venturing out starting with one nation then onto the next nation. During voyaging, quantities of cases are distinguished positive when examined, predominantly when they visit various places of world [16].
COVID-19 pandemic has become a global threat and has developed a fear amongst the mankind, however the people have taken lots of cautious steps to get rid of this dreadful infection [17,18]. Moreover, negative feelings and thinking amongst the people could result in severe transmission of the infection [19], and the dismay could cause unwanted hazards in the society [20]. It has been noticed that the proper attention on infection uncertainties and related fear have also proved to be sometimes beneficial as it develops awareness amongst the people [21]. These outcomes of public fear for COVID-19 spread has produced alterations amongst the social life of people all over the world. The sound well-being choices rely upon precise impression of the expenses and advantages of specific decisions for oneself and for society [22,23]. A passionate reaction to a hazardous circumstance can impact thinking in two stages. Moreover, the feeling quality of a person (for instance, constructive versus adverse) depends upon the type of information and thoughts shared by the individuals around [24,25]. Thus, increase in hostile feelings amongst the people increases and this might generate negativity in thoughts and so could enhance the threat feelings of COVID-19, and this is very essential to control and make people feel less panic [26,27].

2.5. Preference and discrimination

The understanding of anxiety and threat has showed significant facts regarding the social conditions, of not just for how individuals consider themselves, but also how they feel and respond to other people in their surroundings [28]. Greater dismay and danger are related with more noteworthy narrow mindedness and corrective mentalities toward out-groups [29,30]. Featuring gathering limits can reduce sympathy with the individuals who are socially distant [31,32] and might have positive signs of infections [33].

The bubonic plague, for instance, released gigantic brutality in Europe, remembering the homicide of Catalans for Sicily, ministers and ask gars in certain areas, and slaughters against Jews, with eradication over a thousand networks [34]. In spite of the fact that only one out of every odd pandemic prompts vicious, infection can offer ascent to segregation and brutality against disparaged or scapegoated gatherings [35].

2.6. Disaster and panic

There is a typical confidence in mainstream society that, when in risk, individuals fear, particularly when they are in groups. So, they act aimlessly and unreasonably out of self-protection, possibly imperiling the endurance of all [36]. Such thought has been utilized to disclose reactions to the present COVID-19 flare-up, mostly according to the idea of ‘alarm purchasing’. Unquestionably, a few people do act childishly and a few, particularly the individuals who are helpless, may encounter more misery. The participation, active representation and astounding humanity of people have been noticed by the people during the crises, tragedy and other numerous disastrous cases [35]. For example, the guiding principles and unity among people in general have increased because of Covid-19 [36]. In fact, in fires [37] and other common hazards [38], individuals are less inclined to bite the dust from over-response than from under-response.

Then again, the feeling of shared personality can be sabotaged by speaking to others as contenders. This can occur with pictures of void racks and accounts of frenzy purchasing, which recommend that others are just paying special mind to themselves, along these lines inciting a craving for doing likewise. Furthermore, loading up on provisions is versatile in anticipation of potential self-isolation. Also, utilization of the idea of frenzy can be effectively unsafe. They can encourage the very independence and seriousness that transforms reasonable arrangements into broken accumulating and subvert the feeling of aggregate reason which encourages individuals supporting each other during a crisis [39-42].

2.7. Social practices

Mostly the behaviour of individuals get effected by the practice of their thinking about what other people think or do, they follow the same [43]. A number of literature has been reported regarding several thought practices related to moral values and ethics [43,44]. In spite of the fact that people are obstructed by values, their recognitions are usually inaccurate [45]. For instance, individuals can underestimate wellbeing advancing practices (for instance, washing of hands [46]) and misjudge ill-fated activities [47]. Altering practices by rectifying such mis-understandings could be accomplished by open messages fortifying positive moral values. Giving exact data about the activities of the people and their behavior probably could be more useful rather than mentioning false activities. However, in the event that what the vast majority are doing isn’t alluring, giving simply illustrative regulating data can reverse discharge by diminishing constructive practices among individuals who as of now participate in them, except if it is joined by data flagging that the vast majority endorse of these activities (prescriptive instead of enlightening norms) [48,49]. Informal population or communities could increase the spread of practices which are hurtful well as useful during the plague infections, and these effects might spread from an individual to a group and further to the entire community [50-52]. Moreover, the main suspected persons or infected patients might be prominent in increasing the awareness against the pandemic prevention since they are the productive sources of intrusions such as washing of hands, isolation and others [53,54]. Studies have recommended that a bigger extent of intercessions could not necessarily arise from direct consequences for individuals who get the medication, however may arise from the circu-tuous impacts on their social associates who replicated the behavior [55].

2.8. Social imbalance

Inconsistency in social life is influenced by not only just who is at most serious stage of contamination or capitulating to the illness, but also who can receive recommendation to reduce the spreading of infection [56,57]. The destitute cannot cover in places [58], families in lodging deprived of running water can’t keep themselves sanitized [59], in-dividuals who are confined by a state (for instance, in correctional facili-ties, jails, migrant detainment communities or exile camps) may need space to execute physical removing, individuals immediately or abstain from looking for testing or treatment, individuals who depend on open transportation can’t generally stay away from huge groups and low-wage laborers are frequently in professions (for instance, administration, retail, cleaning, rural work) where remote jobs are incomprehensible [60,61]. Monetary burden is likewise connected with the prior conditions related with higher bleakness rates once contaminated, for example, bargained resistant frameworks, diabetes, coronary illness and constant lung ailments like asthma and ceaseless obstructive respiratory disease [62-65]. We anticipate that, the risks associated with the health ecosystems could impede well by the pre-as well as post-pandemic conditions of COVID-19, and could even encounter negative results such as social imbalance and economic crisis severely [66-69].

Monetary positions and cultural imbalance are additionally connected with the trust level in communal establishments, including the human services framework. Cultural and racial minority networks both have authentic and present-day encounters of segregation, leading to mistrust [70-73]. Individuals from these networks might be bound to be vigilant about the general wellbeing data they get, less ready to embrace suggested security measures and possibly progressively defenseless to ‘counterfeit news’. This recommends the requirement for more focused on general wellbeing and confided in associations that are inward to these networks [74].
2.9. Culture impacts

The people’s feeling of being self as free against associated with group of people has been a major part of social disparity [75]. Society of Western Europe and North America highly supports individualism [76] and consider themselves to be free, whereas most of the other societies follow a trend of group formations [77–80]. Despite the fact that the clinical tactics are distinct through the social guidelines, a few disparities towards pandemic may be better represented as social, and a considerable quantity of it have a connecting age with element of independence versus dependence [80–84]. Firstly, the requirement specified to the promises and requirements in Asian social instructions might spur individuals to stay motivated on usual practices [85–87]. Secondly, the Asians might observe unobtrusive situational effects on the viral disease, alike the crowd immunity [88]. Thirdly, normal practices and shows in North American parts and quite a bit of Western European areas would definitely admire the clarity of oneself, as compared to Asians [89–92]. Furthermore, such conditions seem to be another fact that why social spread of the infections could be more feasible in independent societies as compared to dependent societies [93–98].

2.10. Paranoid ideas

Paranoid fears rose along after the main updates on COVID-19 and proceeded to persist [99]. Few considered the origination of SARS-CoV-2 infection, for instance, as it was a form of bio-weapon developed by the Chinese to take up arms against the developed countries like United States and other [100]. Apart from this, other focused on anticipations for its treatment approaches and prospects, for example, traditional clinical treatment ought not to be reliable and that the individuals or patients should make use of elective solutions for prevent the infection or its consequences [101–105]. It isn’t amazing that paranoid fears have thrived right now. Examination recommends that individuals want to clarify huge occasions with relatively enormous causes [106] and are bound to have faith in fear inspired notions about occasions with genuine concerns [107,108] and in the midst of predicament [109]. This is likely on the grounds that individuals are progressively attracted to paranoid ideas when significant mental needs are frustrated [110–112]. In this way, fear inspired notions may acquire footing as COVID-19 spreads and more individuals disengage themselves [113,114].

2.11. False news and falsehood

Fake news and misrepresentation, mostly via web-based networking media, about the COVID-19 pandemic has severely impacted its post-pandemic situation all over the globe and has caused various lethal consequences [115]. Developing examination is utilizing sociology to comprehend and fetch the spread of deceiving news [116–118]. To mitigate this circumstances, delineation of such news and keeping people aware of it, could be one of the significant method to get rid of it [119–121]. Also, co-prejudice, uncovering refusal, and rectifications that give causal clarifications, all will in general increase the viability of countering misinformation [122–124]. Additionally, various government agencies have combinedly performed numerous strategies regarding the significant alterations essential for the augmentation of people’s faith towards accurate news [121,124,125] and to identify the misleading informations [126].

3. COVID-19 outbreak: effects on society, global environment and prevention

The connection between human wellbeing and ailment is neither another idea, nor another subject. The origination of COVID-19 from China followed by its global outbreak has led for significant medical problems. The most common mode of transmission is from person to the person due to close contacts. To overcome the infective symptoms, sanitizers or vaporizers are usually used that could infiltrate the human body (respiratory framework) [127]. The presenting highlights of COVID-19 malady in grown-ups are articulated. It involves extraordinary implication to explain the relationship amongst the COVID-19 and the infected persons. COVID-19 pandemic is a respiratory tract associated disease that mostly harms the cells/tissues of lungs, but might also affect other respiratory
The loss of lives because of any pandemic leads to unmistakable damages to the general public. The COVID-19 pandemic has extremely impacted the global economy. It is very important to restrict the further spread of the infection in the society and for this a most of the nations have opted a strict decision of nation lockdown. These circumstances have severely affected the business transportation of different countries and has led for economy crisis. Traders who were completely dependent over the transportation systems, have been effected the most due to this pandemic. Also, due to significant increase in number of infective cases, the daily worker count has decreased leading to a major impact of industrial sectors. Economy of various nations are presently facing the issue of increased joblessness due to lack of productivity and more consumption for the cure and renewal of the COVID-19 fatalities and their relatives [121]. Lockdown or shut-down have reasonably influenced the GDP of 2019-20 nation in the substantial economic aspects. Recently, the GDP of few Asian, European and South-American nations have declined very certainly and this could significantly lead to devastating consequences in the upcoming days. The economic and social life of people of these countries has been affected severely by the post-pandemic situations. The government and other regulating agencies of these nations should have to take some severe actions, either independently or with mutual concepts and discussions.

3.2. COVID-19: worldwide condition, anticipation and infection control

From the earliest starting point of progress, people have began governing the nature for its own advantages. So as to fulfill the interest of intensifying populace urbanization and industrialization got inescapable, and the undeniable centrality was end up being detrimental on the worldwide condition. Further, ecological worries include contamination of air and water, environmental changes, depletion of ozone layer, a worldwide temperature alteration, decreased ground level water, alterations in biological system and biodiversity, arsenic tainting and others [128].

COVID-19 pandemic is a worldwide danger which has required worldwide response. Government of various nations ought to be liable for giving accurate in-arrangement to support the novel contamination. To diminish the harm associated with COVID-19, general wellbeing and disease control activities are quickly important to restrain the worldwide transmission of the infection (Fig. 1). Numerous global systems are talked about underneath to counteraction and regulate COVID-19 infection.

3.3. Feasible medication

The COVID-19 pandemic has been a clinical danger to the common populace and medicinal services labourers around the world. Since this is an exceptionally new infection, much information about this novel infection is hence not accessible. Up until this point, there are no accurate antiviral medicines or immunizations for COVID-19 sickness. In this manner, it is a critical need of time to progress a sheltered and stable antiviral medicines or immunizations for COVID-19 sickness. In this reference, the government and other regulating agencies of these nations should have to take some severe actions, either independently or with mutual concepts and discussions.

3.4. Conclusion

In earlier years, around 100 years ago the Science magazine demonstrated a work on the Spanish Flu pandemic. The paper contended that three principle factors hold up traffic of counteraction: (i) individuals don’t welcome the dangers they run, (ii) it conflicts with human instinct for individuals to quiet themselves down in unbending disconnection as a method for ensuring others, and (iii) individuals frequently unknowingly go about as a proceeding with risk to themselves as well as other people. This paper is a summarized work which provides few experiences from the previous reported works related to the issues in the social and economic sectors that may help general wellbeing authorities relieve the effect of the current pandemic. In particular, we examined research on danger observation, social setting, science correspondence, adjusting individual and aggregate interests, initiative, stress and coping associated with the pre-and post-pandemic conditions due to COVID-19. Impending actions are estimated to restrain the possibly obliterating influences of COVID-19, activities that could be indorsed by the behavioral and sociologies. Furthermore, a large number of the ideas outlined here might be pertinent to upcoming pandemics and common wellbeing crises.

Declaration of competing interest

The authors show no conflict of interest.

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