

## COVID-19: The Unseen

Shivanl Agrawal, Mbbs Intern, Jawaharlal Nehru Medical College, Datta Meghe Institute Of Medical Sciences, Sawangi, Wardha

Address- Quarter No. 9 , Akhara Bhata Road , Sakti, Chhattisgarh

Mobile No. – 7987023448

EMAIL ID – shivaniagrawaal47@gmail.com

### ABSTRACT

COVID-19 has infected millions of people all over the world, has caused many casualties. As of December, 80.4 Million people have been infected with the virus, and around 148K has lost their lives worldwide. The Indian economy has also faced the adverse effect of Covid-19. The unemployment rate has been rose to 26% from 6.7% in the lockdown period only. Indian GDP has decreased by 2 quarters, continually causing the economic recession in the country. There are many other adverse effects of the COVID-19 on India or the World, but there are some positive effects due to lockdown if we see the bright side. Lockdown caused a sudden stoppage in all human activities all over the world.

Due to the sudden stoppage of automobiles or different types of gadgets that are used to cause pollution, the level of carbon dioxide emission has dropped suddenly, and the level of air pollution, water pollution, noise pollution, and other pollution decreased to a very extent. There is an 8.8% decrease in global carbon dioxide emission (-1551 Mt CO<sub>2</sub>) in the first six months of 2020 compared to the previous year. This much decrease in the level of carbon dioxide and other pollution has positively affected global warming.

Due to an increase in sanitation practice and more care in personal and public hygiene, which indeed needed of the hour and much-needed change in one's personal life and society, there is a decrease in the incidence of another contagious disease, there is also the change of behavior of people towards certain professions like doctors who are doing their duty without worrying about their life, nurses who are working 24 into 7 to provide the best care to the patients, police officers and other professionals who are working hard to make this pandemic easy for other people and in general more sympathy towards other people. Though it has many harmful effects on the pandemic, there are some unseen positive effects.

**Keywords:** COVID 19, positive effect, environment, pollution

### Introduction:

Charles Darwin would presumably be cheerful at this point. Coronavirus uncovered our actual weaknesses while resuscitating Nature. Since the time the advancement of humankind, people were accepted to have "Normal Selection," scarcely in any event, participating in common rivalry. There should be something in our human genome that impels our ruling battling, flourishing, driving impulse, and henceforth we're at the highest point of the Natural Pyramid of Survival on the Blue Planet. People overwhelmed without any help and murdered numerous species shaping the Planet's elements for their own utilization over centuries. Environmental Change, Hygienic changes, conduct changes, boundless of transferable

illnesses with the appearance of recently transformed infections with a more quick speed with the course of time are just the outcomes of our human failures up to a bigger degree that our self voracity, self-centeredness to think for no one except for ourselves pushed in. Things weren't to change until Nature chose to show why it's called " Mother Nature." Whether human-made or normal, COVID-19 worked in combination with Nature's calculation to RESTORE BALANCE. While Medical Staff, Government, and its officials occupied with their obligations for taking care of the Emergency Services, being stuck at home for a bigger human populace with nothing to do, pushed numerous to the edges of the personalities . In the interim, air quality started to improve, Particulate Matter (PM 2.5 microns and PM 10 microns) levels started to retreat (1). With respect to Global Warming, International Energy Agency (IEA) presently proposes that the world will utilize 6% less force this year that is identical to India's Energy Demand in a year. This will bring about different appraisals that Carbon Emissions will tumble off by 4-8% or somewhere close to 2 to 3 Metric Tons of CO<sub>2</sub>! That is right around 6 to multiple times the cut that was made during the last worldwide downturn. As enterprises shut down, contamination levels in the water, ashore, and noticeable all around descended. SPM ( Suspended specific Material), which is considered as a measure of water contamination brought about by sedimentation, sewage removal, and so on, brings about an elevated level of turbidity. In any case, according to an examination, it was seen that the normal SPM has essentially diminished around 36.48% during the lockdown time frame. The report from the focal contamination control leading body of Ahmedabad likewise indicated altogether improved outcomes during the lockdown time frame .Because of the scourge of the travel industry and industry, numerous districts and the remainder of the world have encountered a decrease in air contamination. Decreasing air contamination can lessen both environmental change and the dangers of COVID-19, yet it isn't yet clear what kinds of air contamination (assuming any) are normal to both environmental change and COVID-19. The Center for Energy and Air Research has revealed that measures to control the spread of SARS-CoV-2, for example, isolation and travel limitations, have prompted a 25 percent decrease in fossil fuel byproducts in China. In the principal month of the ground closure, China delivered around 200 tons of metric carbon dioxide than in a similar period in 2019, due to declining air quality, refining oil, and coal utilization. An Earth researcher assessed that this decrease could save in any event 77,000 lives. Notwithstanding, Sarah Ladislav of the Center for Strategic and International Study contended that the decrease in outflows because of the downturn ought not be trifled with, adding that China's endeavors to re-visitation of the past degrees of development between exchange wars and interruptions energy markets will fuel its ecological effect. Between January 1 and March 11, 2020, the European Space Agency saw a critical diminishing in nitrous oxide outflows from vehicles, power stations, and plants in the Po Valley district in northern Italy, concurring with the conclusion of offices in the locale. From northern India, for example, Jalandhar, the Himalayas returned without precedent for many years, as air quality improved because of declining contamination.(2, 3).

The disintegration of numerous vehicles has prompted a decline in air contamination levels. Inset was a void A1 street in Slovenia on March 22, 2020

NASA and ESA has been noticing effects of nitrogen dioxide spreads during China's first period of the pandemic. The monetary dive from the disease has basically diminished tainting levels, especially in metropolitan networks like Wuhan, China, by 25-40%. NASA uses an ozone checking device (OMI) to inspect and screen the ozone layer and pollutions, for instance, NO<sub>2</sub>, pressurized canned items, and others. This instrument has helped NASA with taking care of and unravel moving toward data as a result of overall locking. As shown by

NASA specialists, the utilization of NO<sub>2</sub> outpourings began in Wuhan, China, and consistently spread around the globe. The drop was amazingly strong because the contamination agreed with comparable season and festivities celebrated in China. During this cheerful season, plants and associations shut during the latest multi day stretch of January to adulate the new moon festivity. The reduction in NO<sub>2</sub> in China didn't achieve air quality at a level contemplated sufficient by prosperity subject matter experts. Various poisons, for instance, disintegrated outpourings remained. An assessment circulated in May 2020 found that quickly petroleum derivative side-effects during the end time period toward the beginning of April dropped by 17% and could provoke a 7% diminishing yearly in non-renewable energy source side-effects, the greatest rot since World War II. They trademark this rot to a gigantic lessening in the use of transportation and current activities. Regardless, it has been seen that backslide can reduce get-away on account of limited present day works out. In any case, social changes achieved by COVID-19 lockdowns, for instance, all over transmission interchanges, the determination of far away work game plans, and the usage of real assembling advancement - could have a more suffering impact than a fleeting reduction of transportation use. In an assessment appropriated in September 2020, specialists evaluated that those direct changes that occurred during detainment could diminish 15% of all CO<sub>2</sub> transportation forever.(4, 5, 6).

Aside from this, carbon dioxide discharges were most elevated ever recorded in mankind's set of experiences in May 2020. Energy and meteorologist Constantine Samaras expresses that "plagues are the most noticeably awful type of contamination decrease" and that "innovative, moral, and underlying changes are the awesome best way to lessen contamination." Zhu Liu of Tsinghua University explains that "really at that time will we have the option to diminish our emanations past this excessively long as we will have the option to see an abatement in air focus." Global mineral fuel request has dropped by about 10% between COVID-19 measures, and it is accounted for that numerous energy financial analysts trust it is probably not going to recuperate.(7, 8). In an investigation distributed in August 2020, researchers assessed that worldwide NO<sub>x</sub> emanations diminished by about 30% in April however eliminated by ~ 20% to decrease SO<sub>2</sub> outflows, which debilitated the cooling impact and inferred that the immediate impact of reacting to the an unnatural weather change pestilence an Earth-wide temperature boost will be negligible, with a normal cooling pace of about  $0.01 \pm 0.005$  ° C by 2030 contrasted with the underlying situation yet those aberrant impacts because of monetary recuperation pointed toward restoring the green economy, for example, lessening non-renewable energy sources Investment, could keep away from future warming of 0.3 ° C in 2050. Studies show that a deliberate change in the manner individuals energy and accommodate themselves is expected to greaterly affect an Earth-wide temperature boost. (9)

In October 2020, researchers revealed, in light of ongoing position information, an 'extraordinary' 8.8% drop in worldwide CO<sub>2</sub> discharges in the main portion of 2020 contrasted with a similar period in 2019, bigger than during the past downturn and World War II. . The creators perceive that such a decrease in human movement is "unanswerable" and that underlying changes constantly in monetary administration and human conduct are required changes in NO<sub>x</sub> outflows in East China. A joint report drove by analysts from China and the US evaluated that nitrogen oxides (NO<sub>x</sub> = NO + NO<sub>2</sub>) decreased considerably in East China from January 23 (Wuhan lockdown) to February 9, 2020, at whatever point stood out from the time span from 1 to January 22, 2020, 2020. Surges by then extended by 26% from February 10 (return day to attempt) to March 12, 2020, demonstrating an expansion in monetary action after numerous states have permitted organizations to open. It stays not yet

clear which COVID-19 control measures are best in controlling the spread of the infection and the negligible monetary effect.

According to the National Operator of the Electric System (Operador Nacional do Sistema Elétrico - ONS, Portuguese), power usage began to give a couple of signs of withdrawal on Walk 19, when it was 2.3% lower than insisted seven days sooner. On Sunday (March 22), the fall was 8.9% on a comparable relationship premise. Accordingly, the interest for hydropower was likewise diminished, making it accessible for water stockpiling. On Sunday, power stations in the southeastern Midwest area had a force of 48.7%. One month prior, it was 37.5%. Brazil's power levies ought to have an arrival of 8.1% in April, as indicated by the ONS. As shown by the National Federation of Retail Fuel and Greases - Fecombustíveis (Federação Nacional Park do ComércioVarejista de Combustíveis in Lubrificantes, in Portuguese), power stations are moreover experiencing the effects of withdrawal measures. On Thursday (March 19), bargains in São Paulo were 39% under the city's recorded ordinary. In Goiania, the fall was 42%; in Porto Alegre, 26% and Belo Horizonte, 19%.Alleviation might be impermanent, and it is awful information. Notwithstanding, decreasing emanations and the utilization of petroleum products could wind up being expensive as far as yearly gauges.

Disturbance by the plague has offered cover to unlawful logging works out. This was found in Brazil, where satellite imagery demonstrated Amazon's deforestation was creating at in abundance of half appeared differently in relation to fundamental levels. Joblessness achieved by the COVID-19 pandemic has energized the enlistment of workers in Pakistan's 10 Billion Tree Tsunami mission to plant 10 billion trees -an expected yearly tree misfortune - in five years, they become better in light of the fact that there are common air and water, and in light of the way that yet there is no human impedance. As everything stands, plants are allowed to create and create and convey more incorporation and oxygen. Less tainting also suggests less finish of stream structures, which is worthy as time goes on in Nature.(10)

Untamed life, The Intergovernmental Panel on Climate Change (IPCC), has anticipated that a regular increment of 1.5 deg. C at climatic temperatures could put 20-30% of species in danger of annihilation. Tragically, with the expansion in coral temperatures, it is supposed to decay consistently by 70-90% before the finish of 2030. Talking about fish, in the end time frame, we have seen a decline in fishing, which suggests that the biomass of fish will increase as fishing diminishes. Coronavirus has another beneficial outcome as we would now be able to realize that creatures that used to go to different places currently appear to be moving uninhibitedly. For instance, we have found in the news that ocean turtles have been seen getting back to their country laying eggs, Many species, for example, the Dolphins in Rome and the Venice fish have gotten back with new water, and transitory winged creatures may have lost their environment many years after the fact. This is because of the locking of the floor and the nonattendance of human obstruction. (11,12) `However, the worldwide pestilence has assisted with tending to this decimation to where there have been sightings of wild winged animals rushing to Peru's sea shores and wild game outdoors in London's human settlements. (13, 14). On the east bank of Odisha, India, around 475,000 jeopardized ocean turtles lay 60 million eggs. Albanian Lagoons have seen a third expansion in flamingos because of a decrease in drifting action. In India, species endurance in the red rundown is declining, and subsequently, natural concerns, for example, the SDG report, 2020 .Without precedent for 21st Century, everybody saw Ecological Overshoot, which quantifies our Planet's ability to satisfy common assets against the populace, having its worth diminished. Subsequently, social changes for endurance diminished the crime

percentages all over India and the world. After the inconvenience of lockdown on 23rd walk in multi week, just the criminal records have been declined by 41% according to the google COVID-19 local area portability report. While our country that was all the while lagging behind its Western Counterparts in learning and applying the idea of legitimate cleanliness and disinfection, because of COVID the nation has now learned and applied the idea in a particularly brief timeframe. Mother reminding us to wash our hand's kid to wash their hand prior to eating, to the grown-ups closing down from work in the wake of a difficult day with clean hand and sprinkle of water in the face the significance of cleanliness was reflected in our every day standard to the furthest extent that we can recall. Yet, due to Coronavirus this need has now become the need of the individuals and has clarified us the need of cleanliness and sterilization indeed. Individuals have now perceived the estimation of appropriate disinfection and cleanliness.

At the point when the pandemic started, there was a shortage of veils and sanitizers on the lookout, interest for fluid cleanser and other cleanliness items shot up. As the cleanliness level of networks and general wellbeing is improving, the spread of Coronavirus and contamination will presently go down. Better sustenance and cleanliness lead to better wellbeing, which additionally useful for society. According to a report by Fortune Business Insight, named, "Impact of COVID-19 on the Global Hand Sanitizer Market Size, Offer, Industry Analysis and Regional Forecast 2019-2026." The report determines that the hand sanitizer market size was anticipated to show up at USD 1.35 billion of each 2020 going before the Covid-19 erupt. it would in all likelihood increment immensely from a yearly development pace of 5.06% to 45.71% in 2020

It helped in building a decent invulnerable framework in the overall population, and thus, the dangers of other transmittable illnesses were handled all the while. A lesser number of Non-COVID-19 patients were recorded in many spots in India as individuals remained inside and devoured home-prepared food what's more. As a side outcome, since no one was permitted to go outside, the street mishaps were likewise decreased, moving toward nil in a country with a populace well more than 130 Crore. According to a report, India has seen a drop of around 20,300 passings because of accidents or mishaps as the lockdown was at its pinnacle. Quarterly information which is given by states and UTs to the high court council on street wellbeing, among April and June in 2020, 20,732 lives were lost because of street mishaps when contrasted with quarterly information of 2019, which was 41, 032, there was 49.47% fall. Not simply setbacks, the general level of street mishaps have additionally been declined because of lockdown. The complete number of street crashes was diminished by 63000 in the lockdown period. The all out number of street wounds likewise declined by more than 69000. This further upgraded our Mortality Rates concerning Road Accidents, and it just looks better at this point. While before lockdown, we were all occupied in our own life away from home settling our transporter or building our future. A large number of us neglected to carry on with our life, lost those genuine certifiable minutes with our friends and family. Life was stayed occupied timetables, going around to comply with time constraints, and hurrying to be in dire gatherings. Indeed, we used to get enough family excursion, threesomes from time to time, but at the same time they're we used to consider those forthcoming records in the

workstation at our workstation. Few studies were reported on positive aspects of COVID-19(15,16). It has also been observed that there is Multi-organ involvement along with the progression of disease which is one of the reasons for comorbidity and extra pulmonary organ injuries in patients suffering from COVID-19 [17-20]. Other related studies reflect similar pictures[21,22].

Presently, because of COVID-19, we have the opportunity to act out and keep up our relationship. We at last got some an ideal opportunity to go through with our friends and family, to design our work better. We got time to consider our future, with both our family and work. As we eased back down, we have figured out how to remain associated with our friends and family, perhaps not in person for all intents and purposes, but rather we at long last got some time.

## CONCLUSION

Sadly, the novel coronavirus has taken countless lives and caused global economic shock. While the epidemic has created unpredictable stress and hardship, the sudden and necessary closure of many industries has had a significant impact on the environment.

If we treat Nature in the right way, it will properly reflect human life. That is why the post-epidemic recovery plan that the international community has agreed to will be very important. If there is to be a positive impact on the environment following this terrible epidemic, it must be about changing our production and food systems. Changing our thinking towards green jobs is the only thing that can change the introduction of CO<sub>2</sub> levels into the atmosphere and leave a positive long-term impact on the environment.

At present, we have the unique opportunity to transition from "a strategic transition to a sustainable economy that works for the people and the world" (UN, 2020). Many changes are about to take place, and a green, equitable, and circular economy emerges as a result of the impact of COVID-19, a positive change for our environment.

Are we really doomed, or our Planet was before the COVID-19 hit us? There're two sides to every coin.Perhaps this was Nature's side that won the toss this time and decided to take this on their way. We'll get back to normal life someday, but Nature needed this way more than we did. It's importantfor us to remember what we saw and preserve this holy Nature as we receive it, for what we learn iswhat we must apply to serve life. That's what science tells us.

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## References:

1. Burke M. COVID-19 reduces economic activity, which reduces pollution, which saves lives. Access date: 29/03/2020.
2. Borunda A. Plunge in carbon emissions from lockdowns will not slow climate change. National Geographic. Retrieved from <https://www.nationalgeographic.com/science/2020/05/plunge-in-carbonemissions-lockdowns-will-not-slow-climate-change>. 2020
3. Carrington D. Air pollution linked to far higher Covid-19 death rates, study finds. The Guardian. 2020 Apr;7.

4. Zhang R, Zhang Y, Lin H, Feng X, Fu TM, Wang Y. NO<sub>x</sub> emission reduction and recovery during COVID-19 in East China. *Atmosphere*. 2020 Apr;11(4):433.
5. Myllyvirta L. Coronavirus temporarily reduced China's CO<sub>2</sub> emissions by a quarter. *Carbon Brief* <https://www.carbonbrief.org/analysis-coronavirus-has-temporarily-reduced-chinas-co2-emissions-by-a-quarter>. 2020.
6. Venter ZS, Aunan K, Chowdhury S, Lelieveld J. COVID-19 lockdowns cause global air pollution declines. *Proceedings of the National Academy of Sciences*. 2020 Aug 11;117(32):18984-90.
7. Yaffe-Bellany D. 1,000 Workers, Go Home: Companies Act to Ward Off Coronavirus. *The New York Times*, <https://www.newyorker.com>, Archived from the original on. 2020 Mar;4
8. Viglione G. How scientific conferences will survive the coronavirus shock. *Nature*. 2020 Jun;582(7811):166-7.
9. Stoll C, Mehling MA. COVID-19: Clinching the Climate Opportunity. *One Earth*. 2020 Oct 23;3(4):400-4.
10. Simon E, Castano AE. Deforestation of Amazon rainforest accelerates amid COVID-19 pandemic. *ABC News*. 2020:195-205.
11. Korten T. With Boats Stuck in Harbor Because of COVID-19, Will Fish Bounce Back?. *Smithsonian Magazine*. 2020 Apr:1-7
12. Reiley L. Commercial fishing industry in free fall as restaurants close, consumers hunker down and vessels tie up. *The Washington Post*. April. 2020;8:2020.
13. McMahon J. Study: coronavirus lockdown likely saved 77,000 lives in China just by reducing pollution. *Forbes*. <http://www.forbes.com>. 2020 Mar.
14. Stone M. Carbon emissions are falling sharply due to coronavirus. But not for long. *National Geographic*. 2020 Apr 3;6.
15. Borage, S., and P. Shelotkar. "Positive Effects of Covid-19 on Earth." *International Journal of Research in Pharmaceutical Sciences* 11, no. Special Issue 1 (2020): 234–38. <https://doi.org/10.26452/ijrps.v11iSPL1.2704>.
16. Kamdi, P.S., and M.S. Deogade. "The Hidden Positive Effects of Covid-19 Pandemic." *International Journal of Research in Pharmaceutical Sciences* 11, no. Special Issue 1 (2020): 276–79. <https://doi.org/10.26452/ijrps.v11iSPL1.2712>.
17. Srivastava, R., N. Rath, N. Thosar, S. Baliga, M. Khubchandani, V. Mohite, J. Mehta, and R. Waykar. "Contemporary Treatment Modalities for the Management of SARS-CoV-2 Positive Patients: An Overview." *International Journal of Research in Pharmaceutical Sciences* 11, no. Special Issue 1 (2020): 839–46. <https://doi.org/10.26452/ijrps.v11iSPL1.3090>.
18. Parveen, S., and S. Jain. "Pathophysiologic Enigma of COVID-19 Pandemic with Clinical Correlates." *International Journal of Current Research and Review* 12, no. 13 (2020): 33–37. <https://doi.org/10.31782/IJCRR.2020.12136>.
19. Sethiya, K.R., and P.V. Dhadse. "COVID-19 and Multi-Systemic Diseases: A Review." *International Journal of Research in Pharmaceutical Sciences* 11, no. Special Issue 1 (2020): 1269–77. <https://doi.org/10.26452/ijrps.v11iSPL1.3617>.
20. Sharma, A., S. Sinha, K. Kakde, and P. Bajaj. "Causes of Deaths in Covid-19 Patients." *International Journal of Research in Pharmaceutical Sciences* 11, no. Special Issue 1 (2020): 416–19. <https://doi.org/10.26452/ijrps.v11iSPL1.2801>.
21. Lakhkar, B.B., B. Guru, S. Damke, and S. Damke. "Most Susceptible Duo in COVID-19 Crisis: A Literature Review." *Perinatology* 21, no. 3 (2020): 112–23.
22. Joseph, M.B., S. Pohekar, A. Raut, and M. Patil. "The Palliative Care and Covid-19 Pandemic." *International Journal of Research in Pharmaceutical Sciences* 11, no. Special Issue 1 (2020): 618–22. <https://doi.org/10.26452/ijrps.v11iSPL1.2861>.