

Wildlife Conservation Act as Future Clinical-Medical-Images-Case-Reports of COVID-19 Model: Enriched Forestry-Horticulture-Agriculture-Environment-Health-Biodiversity-Medical-Science-Technology-Communication-Application-Issues!

Subhas Chandra Datta^{1,2*}

¹Department of Zoology, VisvaBharati University, West Bengal, India.

²Headmaster, Secretary and Researcher, Kanchannagar D N Das High School (HS), West Bengal, India.

Received Date : Oct 25, 2021
Accepted Date : Nov 28, 2021
Published Date : Dec 06, 2021
Archived : www.jcmimagescasereports.org
Copyright : © Datta SC 2021

***Corresponding Author:** Subhas Chandra Datta, National Awardee, C/O- Rajendranath Nag, Bajeprotappur (Katwa Road), Opposite to Entry of SBI, Burdwan Municipality, Bardhaman-713101, Purba Bardhaman, West Bengal, India. Tel: +91-9832192464, +91-7602303924. Email: subhaschandra.datta@gmail.com

Abstract

The current COVID-19 disease caused by coronavirus-2 (SARS-CoV-2), is highly infective, causing severe acute long-term illness, badly impacting on forestry-horticulture-agriculture-environment-wildlife-conservation-biodiversity and global health. Still, now no 'Buster-Dose-Vaccine' is discovered. On the other hand, food production forestry, agriculture, and horticulture significantly reduce different pest's attacks. So, to tackle and overcome both, the naturally growing "Wildlife-Conservation-Project of 'Wild Barn Owl and Bats' in the two Heritage-Schools" forming a 'Complex-Typical-Ecosystem' in the food-chain-relationships-landscaping, controlling the different pests in the forest, horticulture, agriculture, and pisciculture, etc., increasing food production, but also plays a vital role in preventing COVID-19, the high rate of morbidity and mortality, showing the "Wild Barn Owls-Bats Act as a Future Preventive Epidemic COVID-19 Model", and developing policy initiative potentially life-saving therapies by boosting natural immunities of the different communities of Burdwan Municipality, West Bengal, India, and wildlife conservation may be the "Future Clinical-Medical Images-Case Reports of Preventive Epidemic COVID-19 Model" enriching "Forestry-Horticulture-Agriculture-Environment-Health-Biodiversity-Science-Technology-Communication-Application-Issues", and worlds become retained in old form developing education and research.

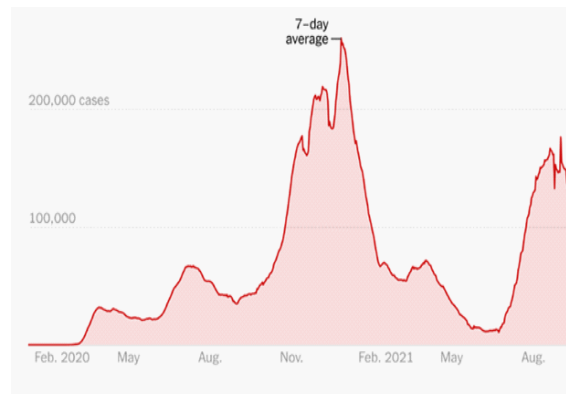
Keywords: Wildlife-Conservations; Future-Clinical-Medical-Images-Case Reports of COVID-19-Model; Enriched-Forestry-Horticulture-Agriculture-Environment-Health-Biodiversity-Medical-Science-Technology-Communication-Application-Issues.

Introduction

Still now, in the New York Times, the first week of October 2021, Wolfe J. (Figure 1), reported that the U.S. is about to reach more than 700,000 deaths from Covid-19, and the last more than 100,000 people to die passed away months after vaccines were American adults, and the majority of unvaccinated Americans have died in recent months, they also analyzed that the people who died in the last three and a half months for the spreading widely 'Delta mutant variant' in the South lagging in vaccinations. And, recently during the eve of

'Durga Puja' in Purba Bardhaman, West Bengal, India (Figure 1), on 12th-October 2021 showed that the total COVID-19 positive cases are 40157, the total number of discharge cases were 39340, the total number of COVID-19 death is 479, rate of recovery was 97.97% respectively, and rate of mortality was 1.19%, and the distribution of COVID positive patient in Burdwan Municipality was 10. And the recent trend is slightly increasing COVID 19. So, it is an urgent need to find out policy-initiative, cheap, and non-pollutant strategies to develop future support and treatments of COVID-19.

Citation: Datta SC. Wildlife Conservation Act as Future Clinical-Medical-Images-Case-Reports of COVID-19 Model: Enriched Forestry-Horticulture-Agriculture-Environment-Health-Biodiversity-Medical-Science-Technology-Communication-Application-Issues!. J Clin Med Img Case Rep. 2021; 1(1): 1033.



Daily Press Briefing Purba Bardhaman Date: 12/10/2021 (Up to 5:00 P.M.) (Report to be send by 7:00 P.M Daily)			Part- II: Distribution of COVID Positive Cases found on 12/10/2021									
Part – I: Related to COVID-19												
i)	Total No. of COVID Positive Patients found on the day of reporting *	:: 28	Aushgram-I	0	Galsi-II	0	Ketugram-I	0	Mongolkote	0	Burdwan Municipality	10
ii)	Total no of COVID positive patients**	:: 40157	Aushgram-II	0	Jamalpur	1	Ketugram-II	0	Purbasthali-I	1	Dainhet Municipality	1
iii)	Total no of active patients as on today***	:: 338	Bhatar	1	Kalna-I	1	Khandoghosh	0	Purbasthali-II	0	Guskara Municipality	0
iv)	Total no of discharged cases	:: 39340	Burdwan-I	2	Kalna-II	0	Manteswar	0	Raina-I	0	Kalna Municipality	1
v)	Total no of COVID death recorded	:: 479	Burdwan-II	2	Katwa-I	0	Memari-I	2	Raina-II	0	Katwa Municipality	1
vi)	Rate of Recovery# (Percentage)	:: 97.97	Galsi-I	0	Katwa-II	1	Memari-II	1	Other District	3	Memari Municipality	0
vii)	Rate of Mortality# (Percentage)	:: 1.19										
viii)	Current Positivity Rate (last 7 days)# (Percentage)	:: 1.95										
• Testing status : RTPCR + RAT												
ix)	Total no of Sample collected	:: 761182										
x)	Total no of Sample tested	:: 760821										
xi)	Total no of Positive cases	:: 34234 (+53 repeat +ve)										
xii)	Total no of negative Cases	:: 726634										
• Containment Zone status :												
xiii)	Total no of Containment Zone as on today	::										
xiv)	Total no of containment withdrawn	::										
• Analysis of Positive Persons Details : On date – Positive-												
xv)	Total No. of Migrant (Other State + Other Dist. of WB):	:: 00										
xvi)	No. of Persons in Safe House:	:: 00										
xvii)	No. of Person in Covid Hospital:	:: 02										
xviii)	No. of Persons in Home Isolations:	:: 26										
Report on Sample Collection and Testing(On Date):												
xix)	Azmpen Test	:: 568										
xx)	RT-PCR Test	:: 315										
xxi)	Test Result within 24 Hrs.	:: 458 (RAT-568+ RTPCR-00)										
			Analysis on COVID +Ve Cases on 12/10/2021		*COVID Positive as on today	**Total Positive Cases						
			Type	Symptomatic	02	4229						
				Asymptomatic	26	35928						
			Total		28	40157						
			Contact Analysis	Primary Contact	01	1592						
				Travel from High Burden Dist. of W.B.	00	217						
				Travel from Other State	00	435						
				No Travel History	27	37913						
			Total		28	40157						

Figure 1: COVID-19 report of the United States, seven-day average in the 1st week of October 2021 in The New York Times, and of Purba Bardhaman District from 12th-October 2021.

Materials and Methods

According to the Imperial Gazette of 1810, there were two English Medium Schools with Dispensary in Burdwan; Burdwan Raj Collegiate School (HS) and Kanchannagar D N Das High School (HS), Burdwan Municipality, Purba Bardhaman-713102, West Bengal, India, (Figure 2), the oldest area, where the temperature was 22±5°C, relative humidity was 75±5%, is situated near the Damodar and Banka river, and is surrounded by forest, ponds, different old trees, park, garden, playground, different storehouse, rice mill, markets, agricul-

ture-horticulture land, brave-yard, wildlife sanctuary, masjids, temples, etc. forming the 'Location Wise an Ideal Place' for keeping and caring of 'Wildlife Conservation', with the average rainfall was 150 millimeters. The school campus prevails the different old and tall trees, nutritional kitchen garden with a midday meal, exhibited an enriched faunal diversity comprising small mammals, mongoose, owls, bats, pigeons, different small birds, reptiles, toads, and insects, etc. and the two heritage oldest schools are the symbol of the 'Wildlife Conservation', especially the wild owls, bats, and mongoose [1-6].



Figure 2: Activities of wild barn owls and bats in the two heritage schools Kanchannagar D. N. Das High School (HS) and Burdwan Raj Collegiate School (HS) during COVID-19 periods.

Results and Discussions

The environment of both the schools depend on both plants and animals in the school compound in which keeping and caring of barn owls apparently act as a keynote species in the food chain relationships. Rats that happen to spoil food items of mid-day meals, rooms, and documents are controlled by Barn owl keeping in the school. Bats which inhabit the big building and different trees making the school buildings dirty by their excreta are also controlled by this owl species. Different pests which are found to significantly reduce food production in the kitchen garden in the school are also appreciably kept in control. Barn owl and bat breeding projects in the two school premises also help to escalate the vegetation profile of the school and the surrounding area and even keeps the pond ecosystem viable. It is worth mentioning that the Barn owl in this school environment plays the role of a top carnivore, predated on mongoose juveniles and bats which are mainly dependent on fishes and aquatic animals in the ponds. And, as such, an improved midday meal is possible conserving aquatic biodiversity. In fact, it is observed that Barn owl keeping helps improve the school environment, arouse the interest of students and communities on ecology and food chain relationships as well as biodiversity conservation issues. And, this ultimately contributes to sustainable pond and kitchen garden management, micro-and macro- climate issues, and also students' health and awareness development including joyful learning experiences with "Wild Barn Owls and Bats Use as Social Vaccine Bio-Indicator Against COVID-19 Improving Science and Technology Communication Environments Socioeco-

nomic Applications with Joyful Learning School Environment" [1-6].

Primarily it has been also observed, "The wild 'Owls' becomes the 'Social Guards, Bio-Indicator, and Social Vaccine' against COVID-19 by consuming especially Coronavirus-carrier wild bats and mongoose, enriching community health, health-risk-services, healthy-lifestyle, wildlife-conservation, agriculture, forestry, horticulture, science, technology, and communication-application-issues, socioeconomic, joyful learning environment, communities-and-health-ecology, food chain relationships issues, and contribute to sustainable pisciculture, and kitchen garden management, micro-and macro-climate issues, where it is mentioned that the wild bats secrets of immunity confirm the clues of treatment against various mutant-Coronavirus with developing the policy also, and arouse the interest of students about conservation of biodiversity" [1-6]. And recently in 'Science', a cave in a mountain in Laos not far from the one shown here is home to bats infected with the closest coronavirus to SARS-CoV-2 yet, and the new viruses, the SARS-CoV-3, show for the first time that a key feature of the pandemic virus exists in the wild, that viruses genetic sequence to SARS-CoV-2 up to 96.8% identical, using its surface protein, spike, angiotensin-converting enzyme 2(ACE2) for initiating an infection, and may cause 'Future Pandemic' due to evolution, several decades separate these bat viruses remain inactive [7].

Here, the bats not only control the different pests in forestry, horticulture, agriculture, and pisciculture, etc., increas-

ing food production, but also plays a vital role in preventing the high rate of morbidity and mortality, showing the “Wild-Bat Act as a Natural-Booster-Community-Vaccine against COVID-19”, and developing effective life-saving immunomodulatory therapies by improving natural-immunities, and provides-“Preventive-Community-Health-Clinical-Research-Education-and-Enriched-Wildlife-Biodiversity-Conservation-Agriculture-Forestry-Environments-Socioeconomy-and-Science-Technology-Communication-Application-Issues with Joyful-Learning-Environment-with-Human-Health-Ecology, and Food-Chain-Relationships, and Community-Health” [1-8].

Future Research

Wild ‘Owls and Bats’, are also opening a path of more future research and communication and we strive towards the betterment of societal conditions benefitting global humanity by advancing innovations in the fields of scientific research. The wild owls and bats may be “Potential Policy Developer Family-Based-Social-Natural-Booster-Community-Vaccine COVID 19 Epidemic-Models Against Future SARS-CoV-3 (Coronavirus-3) Crisis Achieved Sustainable Development Socio-Economic Welfare Science Technology Innovations Application Issues”, focusing on methods of drug and clinical research, and technology development innovation for larger green-socio-economic-welfare, supported the theme “Vision 2040” that might help policymakers, solving any future virus-induced crisis of epidemic or pandemic enriching natural resources with cost-effective treatment methods, and the world will be retained in old form [1-8].

Conclusions

Here, the bats not only control the different pests in forestry, horticulture, agriculture, and pisciculture, etc., increasing food production, but also plays a vital role in preventing the high rate of morbidity and mortality, showing the “Wild-Bat Act as a Natural-Booster-Community-Vaccine against COVID-19”, and developing effective life-saving immunomodulatory therapies by improving natural-immunities, and provides-“Preventive-Community-Health-Clinical-Research-Education-and-Enriched-Wildlife-Biodiversity-Conservation-Agriculture-Forestry-Environments-Socioeconomy-and-Science-Technology-Communication-Application-Issues with Joyful-Learning-Environment-with-Human-Health-Ecology, and Food-Chain-Relationships, and Community-Health”. So, wildlife conservation may be the “Future Clinical-Medical Images-Case Reports of Preventive Epidemic COVID-19 Model” enriching “Forestry Horticulture Agriculture Environment Health Biodiversity Science Technology Communication Application Issues”, and worlds become retained in old form developing education and research.

Acknowledgements

The work described here has been fully supported by the Hon’ble Nature-lover Headmaster, Mr. Subrata Mishra, double M.A. in Literatures (English & Bengali), who help to write the manuscripts by providing day to day information and photographs. I like to thanks Mr. Rakesh Khan, M.A., B.Ed., Secretary, and Mr. Subhendu Bose, Assist Lecturer, President, and all members of Burdwan Green Haunter and Students’ Goal

for helping me for collection of data, and arranging several awareness programs regarding Science and Technology Communication Wildlife Conservation Bio-diversity issue. I am also thankful to the Hon’ble Divisional Forest Officers and his teams, Burdwan Division, Bardhaman-713104, West Bengal, India, who helped to the proper count of wild bats. Last but not the least, I’m thankful to the eminent educationist Sri Tapprakash Bhattacharya for inspiration and guidance.

Conflicts of Interest Statement

The author declared that he has no conflict of interest regarding the research work.

References

1. Datta SC. Dinna Nath Das-Middle English School and -Dispensary Act As a Model: The 21st-Century-Coronavirus-2 Resistance-Futuristic-Common-Ecofriendly-Complex-Green-Digital- School-Health-Ecosystem by Bio-Medicine-Vaccine-Nationalism- Equity-Passport. SunText Rev Arts Social Sci. 2021;2:117.
2. Datta SC. Sustainable Reopening of School Preventing Reinfection-Coronavirus 2 in New-Normal by Vaccine-Nationalism-Equity-Passport with Ginger-Drinks-Bio-Medicinal-Mid-Day-Meals! Int J Res –Granthaalayah. 2021;9:165-170.
3. Datta SC. Improved Science and Technology Communications: Barn Owl Act As Social Vaccine Against COVID-19. International Journal of Latest Research in Science and Technology. 2020; 9(3):6-13. https://www.mnkjournals.com/journal/ijlrst/Article.php?paper_id=10994.
4. Datta SC. Biological and BioSystems Engineering Barn Owl Controlled COVID-19: Engineering Bio-mechanical Biomedical Science Technology Communication Enriched Agriculture Environment. International Journal of Engineering and Science Invention. 2021;2319-6734:2319–6726
5. Datta SC. Artificial-Nest Rainwater-Harvesting with Fishery and Floating-or-Rooftop-Gardening Act as 21st Century Civil-Engineering COVID-19 Epidemic-Model: Improved Biodiversity Agriculture Socio-Economic Environmental-Sciences Technology-Communication. Journal of Civil Engineering and Environmental Sciences. 2020;6(2):022-036. <https://dx.doi.org/10.17352/2455-488X.000037>.
6. Datta SC. Barn Owl Maintain Physical Distance Preventing COVID-19: Improved Plant Biology Agriculture Biodiversity Conservation Science Technology Communication Application Joyful Learning Research Issues! Int. J. Pl. Biol. Res. (Peer Reviewing).
7. Cohen J. Close cousins of SARS-CoV-2 found in a cave in Laos yield new clues about pandemic’s origins. Sci. 2021;30 September. [DOI: 10.1126/science.acx9257].
8. Christie MJ, Irving AT, Forster SC, Marsland BJ, Hansbro PM, Hertzog PJ, et al. Of bats and men: immunomodulatory treatment options for COVID-19 guided by the immunopathology of SARS-CoV-2 infection. Sci. Immunol. 2021;6(63);eabd0205:1-20. [DOI: 10.1126/sciimmunol.abd0205]. <https://www.science.org/doi/10.1126/sciimmunol.abd0205>.