



Current Trends in Pharmacology and Clinical Trials with Ginger-Biomedicines Controlling 'Future A-Z Viral-Diseases'?

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Abstract

The present paper confirms the current trend and potentiality of the "Ginger-Biomedicines" prepared from the rhizome of ginger, *Zingiber officinale* Rosc., at an extremely-ultra-low-doses, highly-effective against, 'Omicron' by boosting-natural-immunity-acting as "Preventive-Natural-Gifts" and advances-in-the-"Clinical-Toxicology-Drug-Discovery-Agriculture-Environment-Biodiversity-Wildlife-Conservation-Science-Technology-Communications-Innovations-Socio-Economy-Issues" and developing "PolicyInitiative-Toxic-Free-Cost-Effective-Life-Saving-Potential-Universal-Natural-Eco-friendly Preventive Biomedicines" confirming the "Current Trends in Pharmacology and Clinical Trials with Ginger-Biomedicines Controlling 'Future A-Z Viral-Diseases'". And it will be more effective if common-Ginger-MT-biomedicines are used-combined with the high-diluted or ultra-high-diluted Black Ginger-biomedicines (BGBM), prepared from the rhizome "Black-Ginger" of *Kaempferia parviflora*, forming the "Emergency Universal-Booster-Preventive-Emergency-Vaccine (UBPEV)" for the "Future-World".

Keywords: Current-Trends; Pharmacology-Clinical-Trials; Ginger-Biomedicines; Control; 'Future A-Z Viral-Diseases'

Introduction

The coronavirus outbreak began in Wuhan, China, in December 2019, and the new-emerging fast-spreading Omicron or Deltacrons-like-any-variants of 'Severe Acute Respiratory Syndrome coronavirus-2 (SARS-CoV-2)' retained active infections for more than 10 days, and in some individuals, the scientists found clinically significant levels of the SARS-CoV-2 virus for as long as 68 days with age-dependent effects in the transmission and control of COVID-19 epidemics, and in rare cases, coronavirus vaccines may cause Long-Covid-like symptoms also, and the virus has resulted in more than 342 million infections and over 5.5 million deaths due to lack of vaccines (Figure 1) and we are gasping for air, and only in 2019, more than 1.2 million people

dying from drug-resistant, a "Hidden-Pandemic" that could emerge in the wake of Covid-19, and the Covid-19 pandemic continues into 2022 [1-5]. The evolutionary forces that drove the emergence and rapid spread of SARS-CoV-2 depend on the virus's ancestors, and the patterns of genetic variation consistent with positive selection [6]. And the Covid-19 pandemic drags on. Clinicians and health care leaders have faced the multiple waves of a new virus in different ways — to care for patients ill, to care for patients with other needs, to provide vaccinations and treatments, and to confront exhaustion and staff shortages among care teams, and badly impacts on the Globe with the effectiveness of Covid-19 vaccines against this emerging SARS-Cov-2 variant Omicron. Recently, many Covid-19 vaccines relying mainly on S-proteins have been prepared, but the SARS-CoV-2 virus escapes host

immunity, the effectiveness of existing Covid-19 vaccines against the new variants needs to be addressed [5-7]. So, it is urgent to develop the 'Universal-Preventive-Emergency-Booster-Vaccine for All' to prevent and tackle the awkward situation for removing 'immunotoxicity, neurotoxicity and drug toxicity [8,9]. And it has been already found that the Ginger-biomedicines, prepared from the rhizome of ginger, *Zingiber officinale* Rosc. (Plate 1), are highly effective against coronavirus controlling-COVID-19, and other diseases by

increasing natural immunity [9-15]. Now the main aims and objectives of this paper are to see, record, and confirm the 'Special-Remarkable-Case-Reports-Efficacy-(SRCRE)' of the 'High-Diluted-Common-Ginger-MT-Biomedicines-(HDCGMTBM)', against naturally occurring coronavirus infections or re-infections of the different-COVID-19-areas of the Burdwan Municipality, Purba Bardhaman, West Bengal, India.

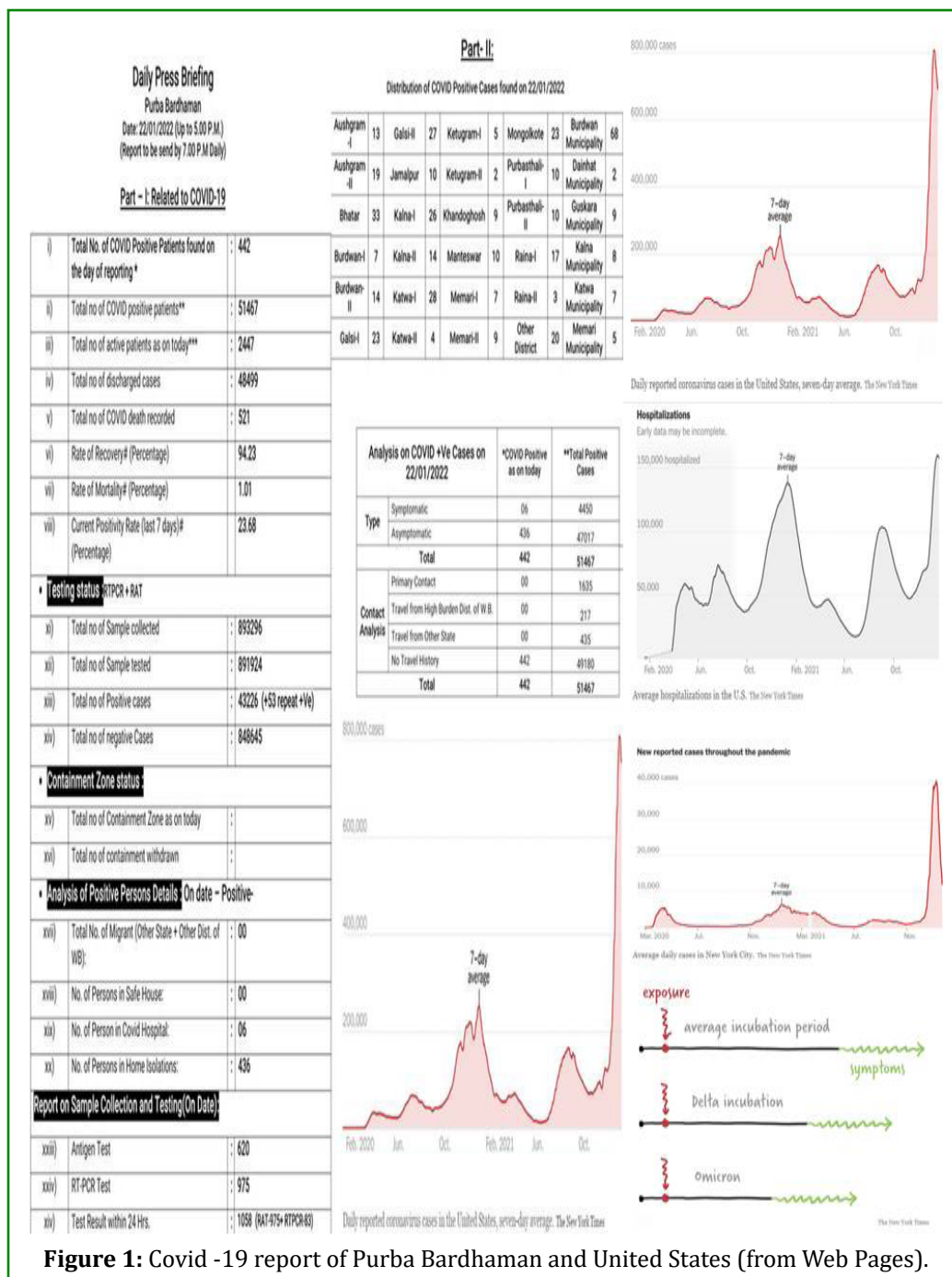




Plate 1: Rhizomes of common ginger (*Zingiber officinale* Rosc.) and black ginger (*Kaempferia parviflora*).

Materials and Methods

Preparation of High-Diluted Biomedicines MT

The high-diluted common-Ginger MT-Biomedicine (HDCGMTBM) was prepared from air-dried powdered rhizomes (Plate 1) of the ginger rhizomes; *Zingiber officinale* Rosc., extracting with 90% ethanol, forming residue which was diluted in 90% ethanol at 1mg/ml concentration, and prepare the high-diluted-Ginger MT-Biomedicine (HDGMTBM) [9-15].

Preparation of Powder-High-Diluted-Ginger-MT-Biomedicines

The powder of high-diluted common-Ginger-MT-Biomedicine (PHDCGMTBM) was prepared from air-dried powdered (Plate 1) of the ginger rhizomes, *Zingiber officinale* Rosc., extracting with 90% ethanol [9-15].

Preparation of Liquid-Ultra-High-Diluted Biomedicines

The ultra-high-diluted common-Ginger-Biomedicines-Liquids (UHDCGBML); Ginger 30C, Ginger 200C, and Ginger 1000C, were prepared from a few drops of a liquid potency of Ginger 30C, Ginger 200C, and Ginger 1000C [9-15].

Preparation of Globules-Ultra-High-Diluted Biomedicines

The ultra-high-diluted common-Ginger-Biomedicines-Globules (UHDCGBMG); Ginger 30C, Ginger 200C, and Ginger 1000C, were prepared by soaking the few drops of a liquid potency in the proportion of 7.2 mg globules/ml of Ginger 30C, Ginger 200C, and Ginger 1000C [9-15].

Clinical Samples

The clinical samples were the different families of different communities as samples of the Burdwan Municipality, Purba Bardhaman District, West Bengal, India [9-47] and all the information was counted for statistical analysis by the analysis of variance 'ANOVA' ($P < 0.01$).

Duration

The duration of clinical-treated samples of the Burdwan Municipality from the onset of COVID-19, 22nd-March 2020 to the fast-spreading of COVID-19, 22nd-January 2022 [9-47].

General Treatments Supports

Under the financial support and assistance of the Hon'ble District Magistrate of Purba Bardhaman, and the Hon'ble Chief Medical Officer, Burdwan Medical College, and Hospital and (BMCH AND CMOH) provided the rapid antigen kits for the COVID-19 infected and comorbid patients, the treatments and visits were done at random in the different sample areas by the Hon'ble treating doctors of; Dr. Dipanwita Malick, MBBS, and eminent Senior Consultant Physician, Dr. Ranjan Mukherjee, M.B.B.S., M.D., District Coordinator of Sishu Sathi Scheme at Department of Health and Family Welfare, Purba Bardhaman, Burdwan-713102, West Bengal, India with the help of; the Hon'ble Secretary, Mr. Rakesh Khan, M.A., B.Ed., (Gold Medalist), and the Hon'ble President, Mr. Subhendu Bose, with all Young Green-Members of the —International NGO named Burdwan Green Haunter and Students' Goal, the secondary- and higher secondary-students, and the energetic community volunteer [23,48]. The whole schedule was guided and led by Dr. Subhas Chandra Datta, Headmaster, Secretary, Coordinator, and Researcher of Kanchannagar D.N.Das High

School (HS), and the treatment was randomized by using a completely randomized block design and guidance, and the rest of the general sample 100%-communities of Purba Bardhaman District, were treated as 'Control Treatments Groups (01year to 99 years)' [9-48], and all the information was counted for statistical analysis by the analysis of variance 'ANOVA' ($P < 0.01$).

Clinical Symptoms

The observation of the main clinical symptoms is fever, cough, tiredness, loss of taste or smell, sore throat, headache, aches, and pains, diarrhea, a rash on the skin, or discoloration of fingers or toes, red or irritated eyes, etc. [9-15].

Clinical Doses of Treatments

The clinical doses of treatments were done @ 10-20 drops of the high-diluted-biomedicine Ginger MT (HDBMGMT), is mixed @ 50ml-100ml (a half to a full cup) of moderately hot sterile-distilled-or pure-drinking-water or tea or milk, orally administered at least @ 5-8 times/day at an interval of 1- 2hrs, after taking any kinds of nutritious biomedicine-enriched-foods/juice against naturally occurring coronavirus infections or re-infections, at least 45-60 days before symptom onset OR illness onset (as a vaccine) OR onset of symptoms where patients in hospital-associated COVID-19 infections have been reported (treatments), and the dose may be increased depending on the intensity of diseases in case of treatment advised by doctors [9-47], and all the information was counted for statistical analysis by the analysis of variance 'ANOVA' ($P < 0.01$).

Suggestions for Use of Different Clinical Treatments

Different types of clinical treatments with high-diluted-biomedicine common Ginger MT; mouthwash/gargle, oral, nasal, chewing gum, chocolate, powder/dust, and vaporized, were followed or applied with HDBMGMT –Soaked-N95-Mask for the 'Special-Clinical-Reports' as follows [9-48];

- **I-Mouthwash/Gargle;** were done @ 10-20 drops-HDBMGMT/100-200ml (a full glass) moderately hot drinking water@ 5-8 times/day at an interval of 1- 2hrs.
- **II-Oral Treatments;** were done @ 10-20 drops-HDBMGMT/50ml-100ml (a half to a full cup) drinking-water@ 5-8 times/day at an interval of 1- 2hrs.
- **III-Nasal Treatments;** were collected from 'oral treatment solution' and were done @ 1-2 drops-HDBMGMT/nostril@ 5-8 times/day at an interval of 1-2hrs.
- **IV-Vaporized treatments;** were done @ 10-20 drops-HDBMGMT/100ml-200ml (1-2 full cup) hot pure water@ 5-8 times-inhalation/day at an interval of 1-2hrs.
- **V-Chewing gum Treatments;** were prepared with edible gum mixing @ 1-2 drops of HDBMGMT@ 5-8times/day at an interval of 1- 2hrs.
- **VI-Chocolate Treatments;** were prepared with edible sucrose mixing @ 1-2 drops of HDBMGMT@ 5-8times/day at an interval of 1- 2hrs.
- **VII-Powder/Dust Treatments;** were applied / nostril with the tip of just-touching sterilized finger @ 1-2 parts dust of HDBMGMT @ 5-8times/day at an interval of 1-2hrs.
- **VIII-Biomedicines-Soaked-N95-Mask;** were prepared @ 10-20 drops HDBMGMT/50ml-100ml pure water soaked @5-10 mask.

Observation of Special-Clinical-Case-Reports

All the observations of special remarkable case reports were recorded mainly by the treating doctor, individual, NGO, students, and the different webpage. All the important reports were collected by Dr. Subhas Chandra Datta from the Hon'ble treating doctors of; Dr. Dipanwita Malick, MBBS, and eminent Senior Consultant Physician, Dr. Ranjan Mukherjee, M.B.B.S., M.D., District Coordinator of Sishu Sathi Scheme at Department of Health and Family Welfare, Purba Bardhaman, Burdwan-713102, West Bengal, India [9-54], and all the information was counted for statistical analysis by the analysis of variance 'ANOVA' ($P < 0.01$).

Science Technology Communication Applications

The NGO-Burdwan Green Haunter and Students' Goal with the different communities, scholars, researchers, artists, teachers, staff, community, photographers, different scientists, academicians, clinicians, administrators, institutions, farmers, and media personnel, visited making the news and published in different medical journals [9-54].

Covid Protocols

The school students, NGOs, and different young volunteers organized many social-awareness virtual camps (VC) among the communities in different ways; using masks mandate, cleaning hands with soap, maintaining physical distance, and avoiding touching eyes-nose-mouth, etc. [9-54].

Average Types of Clinical Treatments/ Individual [Except Last One; Control Through Mid-Day Meal (MDM)]	Average Clinical Treated and Visited Burdwan Municipality: 22 nd -March 2020 to 22 nd -January 2022								
	1 st -Phase COVID-19		2 nd -Phase COVID-19		3 rd -Phase COVID-19		Admitted %		Remarks
	Before Symptom Onset (%)	Onset of Symptoms/ Illness (%)	Before Symptom Onset (%)	Onset of Symptoms/ Illness (%)	Before Symptom Onset (%)	Onset of Symptoms / Illness (%)	Home Quarantine (%)	Hospitalization (%)	Recovery/ Mortality/ Aged/ Co morbid/ Heart/ Diabetic/ Parkinson/ Dental/ MIC
I-Mouthwash/ Gargle	Nil	92bz±2.84	93ax±1.71	97ay±0.01	95ax±2.41	99ay±0.01	98ax±0.62	2ey±0.06	Recovery 100% immunization
II-Oral	Nil	25cz±3.40	55bx±3.65	95ay±2.23	68bx±2.22	98ay±0.02	98ax±0.02	2ey±0.02	Recovery 100% immunization
III-Nasal	Nil	Nil	2dx±2.90	5cy±2.01	8ex±1.04	12dy±0.04	90bx±1.82	8dy±0.12	Recovery 99% immunization
V-Chewing-Gum	Nil	Nil	2dx±2.72	8cy±2.02	16dx±1.02	22cy±2.08	72cx±1.02	27by±0.03	Recovery 99% immunization
VI-Chocolate	Nil	10cz±1.98	45cx±3.53	58by±3.42	38cx±0.22	75by±0.03	73cx±0.01	27by±0.01	Recovery 99% immunization
VII-Powder/Dust	Nil	Nil	1dx±0.61	4dy±1.86	12dx±1.02	19cy±2.03	98ax±0.42	2ey±0.02	Recovery 99% immunization
VIII-Soaked-N95-Mask	Nil	Nil	1dx±0.23	4dy±0.04	15dx±0.01	21cy±0.01	86bx±0.04	15cy±0.01	Recovery 100% immunization
Natural Control (MDM)	90ax±3.56	98ay±0.02	95ax±3.01	98ay±0.04	95ax±1.85	98ay±0.02	55dx±4.03	45ay±1.83	Recovery 94%, died; aged, co-morbid, diabetic, heart patients

Table 1: Special clinical case reports of high-diluted-biomédicines-Ginger MT against COVID19 on different families of Burdwan 'a,b,c,-' different small letters in a column, and 'x,y,z' different small letters in a row show significant difference by the analysis of variance 'ANOVA' (P<0.01).

Results

Table 1 showed the special clinical case reports of high-diluted-biomédicines-Ginger MT as preventive as well as treated biomedicines on family and community against COVID-19 infection or reinfection. The average types of clinical treatments/individual [except last one, control through mid-day meal (MDM)] were; I-Mouthwash/Gargle, II-Oral, III-Nasal, V-Chewing-Gum, VI-Chocolate, VII-Powder/Dust, VIII-Soaked-N95-Mask, and Natural Control (MDM) with age groups 01 to 99 years of the different family and communities treatment- and natural control- group's family members regarding the infection or reinfection of

coronavirus-2 / omicron of the families in the community of Burdwan Municipality, Purba Bardhaman, from 22nd-March 2020 to 22nd-January 2022, and all the data were significant difference by the analysis of variance 'ANOVA' (P<0.01). All the treatments of 'high-diluted-biomédicines-Ginger MT' showed an average of more than 72% recovery in-home quarantine was the active or passive infection or reinfection occurred after preventive- high-diluted-biomédicines-Ginger MT. But, the 'Natural Control (MDM)', showed the lowest average 55% recovery only in-home quarantine and 45% hospitalization from active and passive reinfection after regular taking the lunch or MDM. All the treatment received the highest active infection /reinfection in the 1st and 2nd phase peak, though

the highest passive or asymptomatic infection/reinfection received in the '3rd-phase', and mortality occurred less than 1% in aged-and-co morbid, heart and diabetic patients, and no mortality happened due to effective preventive -HDBMGMT ('high-diluted-biomedicines-Ginger MT'), following the Covid-19 status of Purba Bardhaman District (Table 1, Figure 1). Potential absolute immunization occurred (more than 99%) in all the total average 'Treatments Types' due to effective-HDBMGMT and natural immunity. It is noted that the COVID-19 was affected different people in different ways. Most infected people would be developed asymptomatic (57-77%) or mild to moderate illnesses (21-23%) and would be the total average recovered 94% after hospitalization within the same period from 22nd-March 2020 to 22nd-January 2022 (Table 1), where the most common symptoms were: fever, cough, tiredness, loss of taste or smell, and the less common symptoms were: sore throat, headache, aches, and pains, diarrhea, a rash on the skin, or discoloration of fingers or toes, red or irritated eyes, following the Covid -19 status of Purba Bardhaman District and United States (Figure 1). It was interesting that the last Covid-wave was the fastest transmissible and infective but less detrimental in all respect in both preventive-HDBMGMT- treatment/control groups (Table 1). Among the different types of treatments, I-Mouthwash/Gargle, II-Oral, III-Nasal, VII-Powder/Dust, and VIII-Soaked-N95-Mask, were more effective than others treatments types, and natural control types, though in all clinical treatments, total average more than 99% or absolute recovery, and no mortality occurred due to COVID-19 (Table 1).

Discussion

All types of the clinical treatments of all the age groups on family and community against COVID-19 showed the more or less absolute recovery even in-home quarantine due to treatment with the preventive-'high-diluted-biomedicines-Ginger MT' (HDBMGMT), on family and community against COVID-19, because this biomedicines contains different active effective phytoconstituents or bioactive compounds, and it provides booster immunity or hard immunity or innate immunity preventing not only 'Omicron-Deltacron-Rupacron-Futuracron-.....Like-Any-New-Variants', but also many diseases; analgesic, diuretic, antifungal, vermifuge, antiulcer, laxative, antiviral, asthma, ulcers, diarrhea, swelling of the mouth or throat, and high cholesterol and hypertension, hepatoprotective and antioxidant activities [9-15,55]. For these reasons, all the treatment treatments age groups, 1year to 99 years' showed more than 99% -absolute recovery only in-home isolation or home quarantines were active or passive infection or reinfection occurred after preventive--HDBMGMT. And it may develop the blueprint with the help of 'Students-NGO-Model etc., for potential diagnostics, booster vaccines, and therapeutics against novel

coronavirus-2 or omicron or future A to Z disease [9-55].

It was clinically remarkable that the highest passive infection/reinfection was due to the potential effects of preventive-HDBMGMT. So the potential very old common traditional cost-effective side-effect-free environment-friendly easily prepare-able easily-manufacture-able equitable-marketable easily-available and supply-able, the best quality nanoparticles-biomedical-HDBMGMT at extremely low doses, preventing 'Neurotoxicity, Immunotoxicity and Drug Toxicity', and forming the "Vaccine-Nationalism-to-Vaccine-Equity— Finding a Path-Forward", that will resist COVID vaccine hesitancy against new variants, the 'Omicron-Deltacron- Rupacron-Futuracron-Like-Any-New-Variants' which has long been recognized as a problem in high- and middle-income nations of the world's poorest countries, lack of access to vaccines [8-13,56]. And the Ginger MT-biomedicines will be 'Preventive-Natural-Gifts for All', like- "Wildlife conservation may be future omicron-like-preventive-epidemic-covid-19-model enriched forestry-horticulture-agriculture-environment-health-biodiversity science-technology-communication-application-issues" [9-55].

So, it is observed and confirmed, "The Special-Remarkable-Case-Reports-Efficacy-(SRCRE) of the 'High-Diluted-Common-Ginger-MT-Biomedicines-(HDCGMTBM)', prepared from the rhizome (Plate 1) of traditional common ginger (*Zingiber officinale* Rosc.), at extremely low doses, against naturally occurring coronavirus infections or re-infections of COVID-19 among the individual, family, and different community of the Burdwan Municipality, Purba Bardhaman, West Bengal, India. It is interesting that out of eight-different clinical treatments; who follow or maintains any three or four kinds of clinical treatments regularly, do not affect any infectious diseases like 'Omicron-Deltacron-Rupacron-.....Futuracron-Like-Any-New-Variants', or even any ordinary diseases also, showing the "Current Trends In Pharmacology and Clinical Trials with Ginger-Biomedicines Controlling 'Future A-Z Viral-Diseases'?"

Future Research

It has been observed that the coronavirus outbreak began in Wuhan, China, in December 2019, known as SARS-CoV-2, resulting in more than 355 million infections and over 5.6 million deaths, and the World Health Organization (WHO) is currently monitoring five variants of concern: Alpha, Beta, Gamma, Delta, and Omicron, and the pseudo variant; the 'Deltacron- Rupacron-Futuracron-.....Like-Any-New-Variants', has some new clinical features like as long as 68 days with age-dependent effects in the transmission and control of COVID-19 epidemics, and in rare cases, coronavirus vaccines may cause Long-Covid-like symptoms

also with excessive tiredness which are overcome by the use of 'Preventive-Natural-Gifts for All', the Ginger MT-biomedicines. It will be more effective if common Ginger MT-biomedicines are used combined with the high-diluted or ultra-high-diluted Black Ginger-biomedicines (BGBM), prepared from the rhizome 'Black Ginger' of *Kaempferia parviflora*, forming the 'Emergency-Universal-Booster-Preventive-Emergency-Vaccine (UBPEV)' Against 'Future Epidemic', and "The Ginger-Biomedicines act as Preventive-Natural-Gifts against Omicron-Deltacron-Rupacron-Futuracron-Like-Any-New-Variant'Advanced Clinical Toxicology Drug Discovery Agriculture-Environment-Biodiversity-Wildlife-Conservation-Science-Technology-Communications-Innovations-Socio-Economy-Issues". And the "Current Trends in Pharmacology and Clinical Trials (CTPCT) of Ginger-Biomedicines" are outstanding in the field of pharmacology and clinical trials, providing an advanced the science and technology of pharmacology; medicine and pharmaceutical sciences concerned with drug or medication action, the interactions that occur between a patients-organism and chemicals that increase normal immunity with biochemical function. And the current study encourages recent and the latest developments research to research scholars, academicians, professionals and students engaged in the field of pharmacology and clinical trials. It is already proved that ginger also improve the relevant fields such as Pharmacology, Cardiovascular Pharmacology, Cancer Pharmacology, Drug Side Effect, Analytical Toxicology, and Drug Metabolism. And it will be distributed equally, preventing shortfalls and global crisis, and oath ourselves "Vaccine equity: there is no time to waste due to COVID-19: endemic doesn't mean harmless, and it will not come to a natural end; After Omicron, some scientists foresee 'a period of quiet' in the New Year 2022" [57-66].

Conclusion

The present paper confirm the current trend and potentiality of the 'Ginger-Biomedicines' prepared from the rhizome of ginger, *Zingiber officinale* Rosc., at an extremely-ultra-low-doses, highly-effective against 'Omicron' by boosting-natural-immunity-acting as 'Preventive-Natural-Gifts' and advances-in-the-'Clinical-Toxicology-Drug-Discovery-Agriculture-Environment-Biodiversity-Wildlife-Conservation-Science-Technology-Communications-Innovations-Socio-Economy-Issues' and developing 'Policy-Initiative-Toxic-Free-Cost-Effective-Life-Saving-Potential-Universal-Natural-Eco-friendly-Preventive-Biomedicines' confirming the "Current Trends In Pharmacology and Clinical Trials with Ginger-Biomedicines Controlling 'Future A-Z Viral-Diseases'". And it will be more effective if common-Ginger-MT-biomedicines are used-combined with the high-diluted or ultra-high-diluted Black Ginger-biomedicines (BGBM), prepared from the

rhizome 'Black-Ginger' of *Kaempferia parviflora*, forming the 'Emergency-Universal-Booster-Preventive-Emergency-Vaccine (UBPEV)' for the 'Future-World'.

Conflict of Interest

The authors declare no conflicts of interest here and the manuscript is written by the author itself.

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