

## REVIEW ARTICLE

# Medical and Healthcare Effective Therapeutic and Covid-19 Role of Herbal Medicine in The Treatment : A Review

Azhagu Madhavan S<sup>a\*</sup>, Ganesan S<sup>a</sup>, Mahadevi M<sup>b</sup>, Vinotha P<sup>c</sup>, Uma V<sup>c</sup>, Senthil J<sup>d</sup>.

a b. PG & Research Department of Zoology & Biotechnology, A Veeriyar Vandayar Memorial Sri Pushpam College, (Autonomous) Poondi, Thanjavur, 613503, Tamil Nadu, India.

c. PG & Research Department of Bio-Chemistry, Bharathidasan University, Tiruchirappalli, Tamilnadu, India.

d. Bharath Institute of Higher Education and Research, Chennai, Tamil Nadu, India.

Email: mathavan062@gmail.com

Corresponding author ---Azhagu Madhavan S<sup>a\*</sup>

### ABSTRACT

*The novel Covid - SARS-CoV-2 (COVID-19), in response to a call for interdisciplinary examination on the likely impacts of the Covid pandemic. A recent in vitro study suggests the role of polyphenols isolated from tea leaves in the treatment of COVID-19 infection. The aflavin and Epigallocatechin-3-gallate (EGCG) are the main active constituents of black and green tea showed inhibitory activity against 3 CL-protease of SARS-CoV-2. COVID19 raised numerous challenges and improvements in the delivery of care to mothers. Substitute ways of coping with pre-birth treatment have emerged as a technique to reduce the risks of spreading COVID-19 among patients, parental figures, and staff with additional spacing of in-person appointment timings and decreasing the amount of in-person patient visits. Currently there are approximately 100 million women are pregnant and they are at increased risk for COVID infection because of their suppresses immunity. The government is very much attentive in reducing the risk of infection. Midwifery led continuity care, group antenatal care, community-based intervention for better communication and support are the recommendations. pathophysiology, diagnosis, various prevention and treatment methods with impact of covid-19 on human health as well as environment.*

**Keywords:** COVID-19, Pandemic, Negative Impacts of Covid-19, Positive Impacts of Covid-19.

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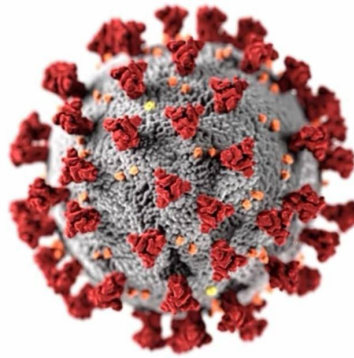
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### INTRODUCTION

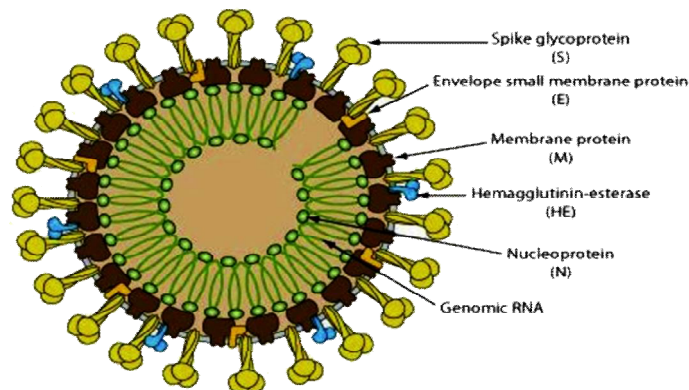
The COVID-19 pandemic has made remarkable harm the instructive framework around the world. Other than the quantifiable monetary effects temporarily and long haul, there is elusive obliteration inside instructive establishments [1]. Specifically, educators – the most basic scholarly assets of any schools – need to confront different kinds of monetary, physical, and mental battles because of COVID-19 [2,6]. As of May 25, 2020, the novel Covid sickness (called COVID-19) spread to in excess of 185 nations/areas with in excess of 348,000 passing's and in excess of 5,550,000 con-solidified cases [4-5].

### STRUCTURE OF CORONAVIRUS

Covids are minute in size (65–125 nm in breadth) and contain a solitary abandoned RNA as a nucleic material, size extending from 26 to 32kbs long. The subgroups of Covids family are alpha (a), beta (b), gamma (c) and delta (d) Covid [1,23].



**Fig: 1. Structure of SARS-CoV-2**



**Fig: 2. Basic structure of COVID Virus**

The chief spotlight on the clinical side effects of COVID-19 was insisted to Wuhan's city introduction [1419]. Anyway, the extended dark presented by the Chinese and American Centers of Diseases Control and Prevention (CDC) made a few nuclear inspects, for the identification of the different contaminations in the clinical examples [11,29].

**IMPACT OF COVID-19**

**Negative Impacts of Covid-19**

Pandemic is not just a medical phenomenon, but has brought normal life on standstill at both individuals and society level, causing disruption .From the above discussion it is concluded that covid- 19 will produce both positive and negative impacts on environment but later one is significantly greater [21,27]. Covid 19 produces both positive and negative impact on environment. But mostly positive impacts are short term while negative impacts are long term. Due to covid 19 all industry, travelling and offshore business came on standstill. To overcome that loss industrial work restart working on much larger scale and at double pace without concerning about environment [5,19]. All this will eventually lead to increased level of pollution, waste affecting environment negatively.

**Positive Impacts of Covid-19**

The Covid-19 disaster is a global health tragedy with severe impacts on physical condition and economic condition. Still, covid-19 will improve the air excellence by dropping carbon emissions which can cause increased environmental wellbeing [12,17]. It is n't clear nevertheless to what degree the positive effects can stay, as soon as because the travel restrictions square measure discharged, however the impact of Covid-19 can increase folks awareness of the environmental problems [13,26]. Decreasing inexperienced house gases concentration throughout a brief amount is not a property thanks to clean-up atmosphere, our surroundings, which will more recent and should be more difficult to manage if countries ignore the impact of pandemic on surroundings.

**Impact of Corona Virus on Cardiac Health**

The world's view towards nurses and health care professionals is already changed due to COVID- 19 pandemic [9-11]. The media's attention and public gratitude towards healthcare professionals is being captured on a daily basis. The COVID-19 pandemic has carried medical attendants to the front line of individuals' brains [17-19]. As not every person comprehends what occurs in a heath care office, and the

COVID-19 pandemic has featured the significance of the commitment of the medical caretakers to medical care.

### **Impact of Coronavirus Disease 2019 Novel Outbreak on Nursing Staff Performance, (2020)**

Nurses face many obstacles and problems during emergencies and epidemics, A nurse is like any human being affected by the physical, psychological, and social aspects [13]. The World Health Organization has designated 2020 as the International Year of the Nurse and Midwife celebrating nurses globally. Nurses are among those responders that will provide care during this pandemic [11,27]. Although she was the most affected because considered as one of the health-care workers (HCWs) at the frontline of response to coronavirus disease 2019 Issues that we have faced pre-COVID-19 will challenge the responses to issues known. Responses post-COVID-19 must address what is mandatory for all humanity.

### **RESULTS AND DISCUSSION**

Clinical science research facilities possess focal function in the administration of COVID-19 through surveying the biochemical and provocative profile. It has been stressed by numerous wellbeing associations that medical services laborers are at high danger with COVID-19 episode [4,6]. Sharing and refreshing of individual encounters with respect to the research facility wellbeing is fundamental to limit the danger of lab individual working in this emergency [64,70]. This survey article will give data to clinical natural chemists and research center experts to build up a security lab climate during this COVID-19 pandemic. The use of numerical models, man-made consciousness, large information, and comparable approaches are possible devices to anticipate the ex-tent of the spread and viability of regulation techniques to stem the transmission of this illness [44].

### **Role of Pharmacist during Covid-19**

The pharmacist's position has changed from being product-based and patient-facing to being service-based and patient-centred over the last few decades [25]. Pharmacies have moved to pharmacy centres, clinical pharmacies and fully developed 'medical pharmaceutical networks' from becoming compounding centres dedicated to the manipulation of material medical, offering a wide variety of non-prescribing facilities [3]. In addition, pharmacists' positions, tasks and responsibilities have accompanied these historical changes and have been steadily extended, introducing new expertise and reflecting new social expectations and challenges. The covid-19 epidemic has unearthed fresh possibilities for pharmacists and has propelled new changes: neighbourhood and hospital pharmacists have indeed, stepped in new positions and have played a vital role during the covid-19 pandemic, In order to face disasters and public health.

### **Role of Herbal medicine in the Treatment**

Natural medicine plays a significant part in controlling communicable diseases. Clinical proofs have shown the basic result in the prevention of SARS-CoV-2 transmission and upheld the possibility that natural medication has an advantageous impact in the treatment and counteraction of scourge infections [5]. Earlier studies revealed that natural medicines are very effective in COVID-19 infection and may improve symptoms also when used in combination with synthetic medicines. The anti-inflammatory and inhibitory effects were seen in COVID-19 patients after treating with herbal formulation named as Lianhuaqingwen (containing 11 different herbs and some minerals in their composition) [17-19]. Another study evaluates the potential of a combined herbal drug therapy (lopinavir/ritonavir + arbidol + Shufengjiedu) [1,18]. Result shows significant improvement in the symptoms and all patients were found negative after treatment. A recent *in vitro* study suggests the role of polyphenols isolated from tea leaves in the treatment of COVID-19 infection. The theaflavin and Epigallocatechin-3-gallate (EGCG) are the main active constituents of black and green tea showed inhibitory activity against 3 CL-protease of SARS-CoV-2. Consequently, theaflavin and EGCG are promising up-and-comers in the anticipation and controlling of SARSCoV-2 disease.

### **Impact of COVID-19 on cancer care**

More than a third of AYA participants scored in the clinical range for psychological distress. Telemedicine and Health may offer a great methodology for some AYAs, yet in scaling them up, we need to guarantee that we don't give up those with restricted access to digital technologies, authors say [12]. The current circumstance features the proceeded with need to screen for mental misery. Capacity for surgery has also been reduced as theatre space and ventilators have been requisitioned to provide additional critical capacity for patients with COVID-19. Radiotherapy has always had a major role in cancer both as a curative therapy and as palliative therapy [13]. This role has expanded with the pandemic and has been used to replace or delay other treatment modalities with higher infection risk. Maybe as request builds, courses of radiotherapy ought to be proportioned.

### **Impact on COVID-19 on dental education in India**

For healthcare professionals around the world, the novel coronavirus (COVID-19) pandemic has become a real problem. Very soon after the declaration of the need for 'social distancing' and minimizing all face-to-face contact, the immediate effect of COVID-19 on the education sector was observed [2,19]. Dental schools subsequently stopped their face-to-face routine training sessions and hands-on laboratory instruction. Alternative delivery and evaluation training methods, such as online workshops, webinars, problem-solving sessions, written papers, and computer-based assessments. The epidemic influenced many clinical dental research studies [14]. In relation to COVID-19 Dental Public Health problems. Impacts on dental practitioners and the dental industry of the novel coronavirus pandemic. In dentistry, cross infection prevention and PPE. Remote consultation advances and alternative IT-based approaches in Dental.

### **Psychosocial and mental health impact of COVID-19 on doctors**

For health care staff, the shortage of funding and heavy workload could have psychological effects. The situation induced by COVID-19 could generate a sense of effectiveness and helplessness among employees [8]. In a population already predisposed to these kinds of problems, Burnout Syndrome (BS) could increase. It is understood that various levels of depression and anxiety in healthcare workers are rising increasingly and are above the general population average [16]. The World Health Organization (WHO) declares BS as a labour risk affecting the quality of life of individuals, undermining the mental as well as physical health of individuals. In these relevant professionals, the prevention and treatment of BS and its symptoms will be important for physical and men-such health care. Research carried out on healthcare workers involved during SARS indicates that quarantine may be predisposed to symptoms of post-traumatic stress [17,23]. Getting PTSD practitioners will reduce human capital for either sick days or inability to cover those health facilities. A result of the COVID-19 pandemic is social isolation. Quarantine, particularly in this population, causes PTSD, which increases the likelihood of developing BS.

### **Growing telemedicine impact of COVID-19**

The telehealth industry could see an increase in use in the future with enhanced worldwide functionality and accessibility, says Foursquare's study. Due to the Corona virus pandemic, the rapid growth of telehealth services will have long-term repercussions [11]. The implementation of telemedicine systems and virtual apps offers a secure communication framework for medical a practitioner that outlines factual information [12,25]. Medical centers are introducing telemedicine to provide health coverage after hours from 6 pm to 8 am in response to the ongoing COVID-19 pandemic. The simulated medical trial satisfies patients. Several virtual computing systems are being adopted as the world faces the effects of COVID-19[30]. Other software tools, such as chat bots and wearable devices such as smart watches, are used in addition to video consultation software and cell phone applications. Physicians must obtain patient consent for online consultation when implementing telemedicine, record the form of consultation, patient and physician position, identification confirmation, and medical care reporting carried out.

### **SUMMARY AND CONCLUSIONS**

Impuissant genus is more prone to COVID - 19 due to a weak immune system. Geriatric, pediatric, pregnant women and high-risk groups are most affected by the disease. Nurses play a special role in this pandemic situation. Nursing interventions should focus on monitoring vital signs, respiratory patterns, and reducing transmission. Respiratory isolation should be maintained by well marked rooms and entry should be restricted. Avoidance adequacy utilizes choice investigation and displaying procedures to give data to choices about allotting assets and detailing strategy in general wellbeing. We also need to tackle this pandemic and ensure that the COVID-19 virus is prevented and managed to spread by enforcing proper guidelines. In this examination, we deliberately surveyed a forthcoming treatment methodology for COVID-19 patients as recuperating plasma treatment. Serology was integral to RT-PCR for the finding of COVID-19 in any event 14 days after beginning of indications. First line serology testing can be performed with Wantai Ab or Abbott IgG examines, while DiaPro IgG affirmation test can be utilized as a productive affirmation test by all checks, and with demonstrated outcomes, we construed from the examinations that plasma treatment shows huge guarantee in killing neutralizer titers and coming full circle in radical fall in viral burdens, particularly in basically sick patients.

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