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REVIEW ARTICLE

Current Review on Herbal Pharmaceutical improve immune responses against COVID-19 infection

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ABSTRACT:
Coronavirus SARS-COV2 (COVID-19) represents the causative agent of a potentially fatal disease that is of great global public health concern. The pandemic outbreak of COVID-19 is rapidly spreading all over the world. This review aims to provide the role of Herbal Pharmaceutical in reducing the spread or complications of COVID-19 infection in the body of people. The evidence of generation of oxygen free radicals and oxidative stress is a key process in the onset of chronic disease which participate in the development of the systemic inflammatory response syndrome. Medicines of plant origin aroused a lot of interest due to their wide use, abundance, high efficacy and lack of secondary effects as an antioxidants and anti-inflammatory agents, antiviral efficacy or in their preventive efficacy of the immune system From it we suggest that the combination of conventional therapy and herbal medicine for patients infected with COVID-19 to reduce the complexities and development of the virus.

KEYWORDS: COVID-19, Immune system, Oxidative stress, Herbal medicine.

INTRODUCTION:
The sudden outbreak of the 2019 coronavirus (COVID-19) in Wuhan, China due to the SARS-CoV-2 virus, in just two months, after which the epidemic spread rapidly in the rest of the world[1]. Coronaviruses target the human respiratory system, where previous coronavirus outbreaks (CoVs) include Middle East Respiratory Syndrome (MERS-CoV) and severe acute respiratory syndrome (SARS-CoV), which poses a major threat to public health[2].

The configurations of metabolism cellular is very important in determining the state of the immune cell (activation, growth and proliferation, Differentiation and homeostasis) and that's mean determining a response immune[3]. Many studies have suggested that the cause of progression of several disease is reactive oxygen species and oxidative stress[4]. Reactive oxygen species (ROS) are free radicals resulting from the metabolism of oxygen[5]. The increased free radical production and antioxidant depletion in diabetes to be a causative factor in increasing the risk of infection and some investigators have reported increased lipid peroxidation and significant depletion in antioxidant capacity during the development of diabetes[6]. Phytochemicals in the diet can exert on different targets that can relieve multiple pathological processes, including oxidative damage, epigenetic alterations, chronic inflammation, active stimulators, inhibitors and growth terminators and

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