



LATEST SCIENTIFIC RESEARCH FINDINGS

Chenland's Latest Open-Label Clinical Trial Confirms Beneficial Effects of Jadeimmune™ on Human Immune System



In December 2021, Chenland Nutritionals released the results from Jadeimmune™'s open-label clinical trial. The study confirmed that Jadeimmune™ has tangible effects on the human immune system: the branded ingredient can effectively enhance the body's immunity, its ability to resist viral invasion, and did not cause any adverse reactions in any stage of the study.

When people mention the field of immunity and respiratory health, one of the primary topics is the incident of COVID-19. The SARS-CoV-2 Virus causes an acute respiratory condition, and has posed an enormous threat to public health and safety across the globe. As of January 5th, 2022, there have been close to 300 million confirmed cases of COVID-19 worldwide, and more than 5.4 million deaths.^[1]

In this battle to prevent coronary pneumonia, the power of Asian herbal medicine has shown significant positive effects on the prevention and treatment of COVID-19. Traditional Chinese medicine (TCM) has been used to treat over 500 epidemics over a 3000 year period in Chinese history. The clinical experience and prescriptions used by Chinese physicians are well documented.^[2] Additionally, due to the successful

use of TCM in treating previous coronavirus pneumonias such as SARS, Middle East respiratory syndrome (MERS), and other epidemic diseases^[3, 4] the National Health Commission of China recommended using TCM as one of the protocols for COVID-19 treatment.

Recently various regions of China have utilized the efficacy of traditional herbal medicine as a measure to prevent and treat COVID-19. One of the most widely used herbs, Jade Screen, has been previously found to be an effective treatment for SARS and Influenza. The research shows that Jade Screen is able to keep the body's immunity functioning properly even under diseased conditions. Chenland Nutritionals Inc. has combined more than 2,000 years of traditional Chinese medicine (TCM), with patented biotechnology, to develop the Jadeimmune™ from the Jade Screen herb.

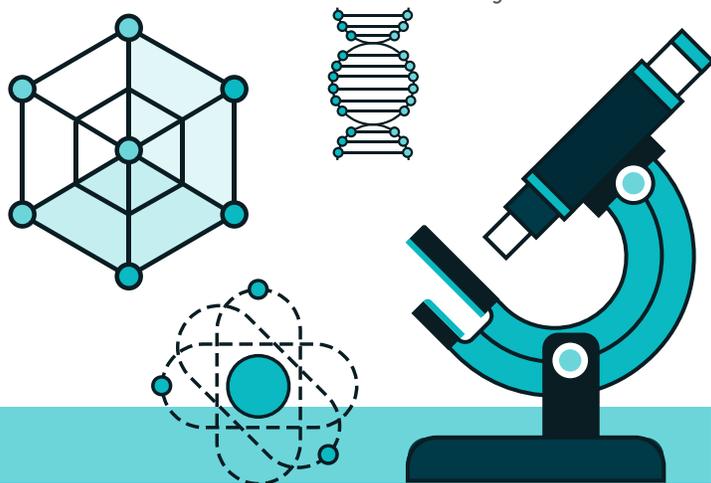
Jadeimmune™ is a classical TCM formulation consisting of *Astragalus*, *Atractylodes* and *Schizonepeta aerial part*. Similar in function to Jade Screen, Jadeimmune™ can boost and balance the immune system, support respiratory health, and prevent colds and seasonal allergies. It is suitable for both children and adults.

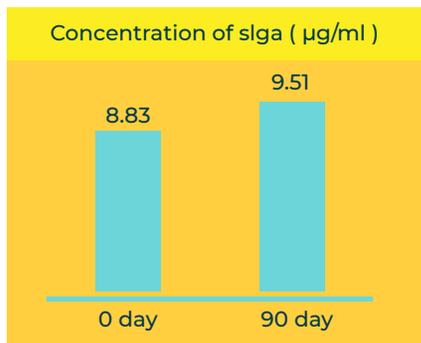
--- OPEN-LABEL CLINICAL STUDY OF JADEIMMUNE™ ---

We conducted a 90-day, single-center, open-label clinical study of Jadeimmune™ from July to December 2021. The participants were healthy adults aged between 25 and 51 years old. During the 90-day follow up, there were significant changes in some of primary outcomes in average of all 27 participants.

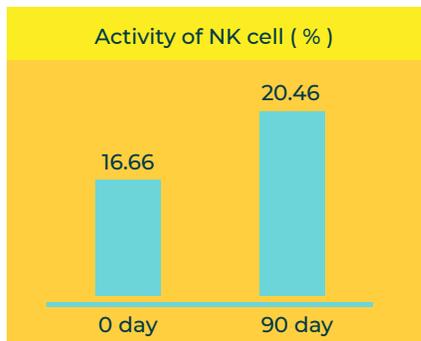
In the first line of immune defense-oral immune system, sIgA has been recognized as a critical immune barrier for infection and allergy. In our study, the sIgA level in saliva has been increased by 7.7%.

One of the most common ways viruses are transmitted is orally, by mouth. sIgA is a critical immune barrier for preventing viruses entering the body through food or oral contact with contaminated matter (fingers, unclear tableware, etc.) In our study, Jadeimmune™ increased the sIgA level in participants' saliva by 7.7%.

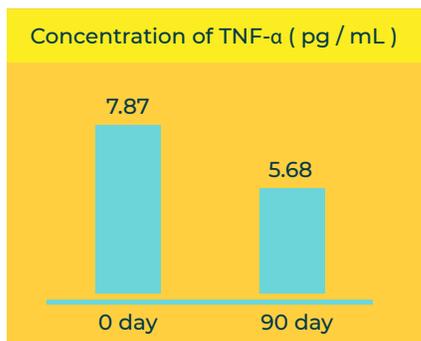




The immune system consists of granulocytes (mainly neutrophils), antigen presenting cells (APCs), natural killer (NK) cells and $\gamma\delta$ -T cells. These cells are always available to efficiently eliminate a broad range of pathogens. During the study, there was an increase in NK cell activity by 22.8%, which suggests that Jadeimmune™ promotes innate immune response by increasing immune cells.



During infection or inflammation, the production of certain complementary proteins and other acute phase reactants is augmented by inflammatory cytokines, such as tumor necrosis factor- α (TNF- α), which are produced by leukocytes (eg, macrophages and neutrophils). TNF- α level has been decreased by 27.8% which indicates Jadeimmune™ can relieve inflammation by inhibiting concentration of inflammatory cytokines.



In this 90-day clinical study, it is concluded that Jadeimmune™ can effectively regulate the immune system of participants and build a line of defense for the immune system. It is a very safe and effective solution to provide daily immune support to a majority of the population.

In conclusion we feel confident that the results of this 90 day clinical study prove that Jadeimmune™ can effectively regulate the immune system of participants and build a line of defense for the immune system. Jadeimmune™ is a very safe and effective solution to provide daily immune support to a majority of the population.

Reference

- [1] Ritchie, H., Mathieu, E., Rodés-Guirao, L., Appel, C., Giattino, C., Ortiz-Ospina, E., Hasell, J., Macdonald, B., Beltekian, D., & Roser, M. (2020, March 5). Coronavirus pandemic (COVID-19) - statistics and Research. Our World in Data. Retrieved January 6, 2022, from <https://ourworldindata.org/coronavirus>
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- [3] J. Liu, E. Manheimer, Y. Shi, C. Gluud Chinese herbal medicine for severe acute respiratory syndrome: a systematic review and meta-analysis J Alternative Compl Med, 10 (2004), pp. 1041-1051
- [4] T.F. Lau, P.C. Leung, E.L. Wong, C. Fong, K.F. Cheng, S.C. Zhang, et al. Using herbal medicine as a means of prevention experience during the SARS crisis Am J Chin Med, 33 (2005), pp. 345-356

UPCOMING TRADE SHOWS

Natural Products EXPO WEST*
 Mar 8-12, 2022 Anaheim, CA, USA
Booth #3662

SupplySide EAST
 Apr 12-13, 2022 Secaucus, NJ, USA
Booth #335

PETFOOD FORUM
 May 2-4, 2022 Kansas, MO, USA
Booth #938

Vitafoods Asia
 Sep 21-22, 2022 Singapore
Booth #D23

Natural Products EXPO WEST*
Mar 8-12

Chenland will be participating in the Natural Products Expo West (Booth #3662) this year, and will bring Jadeimmune™, Cuminup60®, JointAlive® and other branded ingredients to the show floor. The company also provides private label and OEM/ODM customization services. If you are interested, we will have staff available for in-depth discussion on the exhibition floor.



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