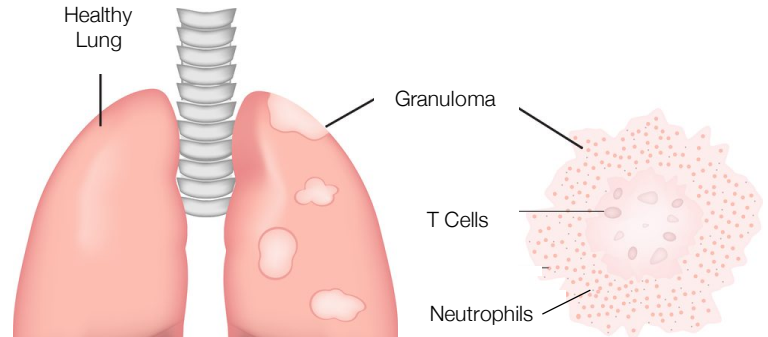
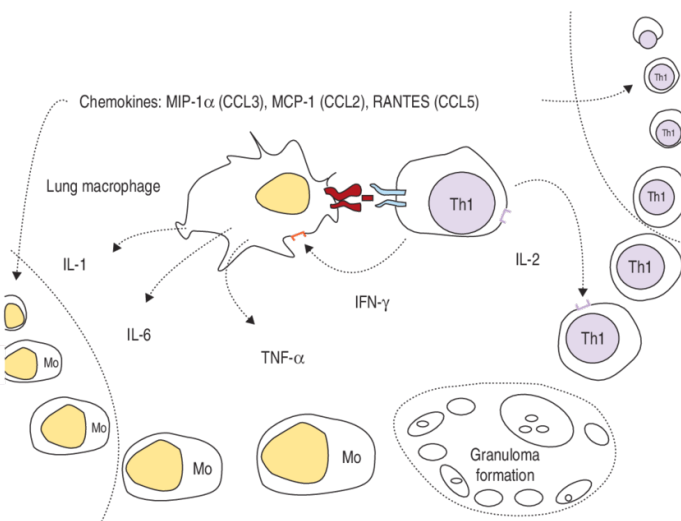


Sarcoidosis is a multisystem disease characterized by non-caseating granuloma formation. Although the lungs are involved in 90% of patients, sarcoidosis can occur in the lymph nodes, eyes, and skin as well. Sarcoidosis occurs in adults younger than 40 years of age with a higher incidence in the Danish and Swedish population and among US African Americans. Sarcoidosis is one of the few pulmonary diseases with a higher prevalence among nonsmokers.



It has been suggested that sarcoidosis is a disease characterized by an abnormal immune response to certain environmental agents in genetically predisposed individuals. In very recent research published in March 2017

conducted by Sweden's Center for Allogeneic Stem Cell Transplantation (CAST), blood samples from individuals with sarcoidosis, Löfgren's syndrome, an acute form of sarcoidosis, and tuberculosis were tested for peptides of *Mycobacterium tuberculosis*. The results of the study have confirmed that the bacteria, *Mycobacterium tuberculosis* that causes tuberculosis, is also involved in sarcoidosis development. Since the immune response between patients with sarcoidosis and tuberculosis is different, researchers speculate that genetic factors may determine how the body responds to an *M. tuberculosis* encounter whether the body is able to control bacterial growth or whether sarcoidosis or tuberculosis will develop.



In response to the mycobacteria, the immune systems of sarcoidosis patients develop a cell-mediated response to the "antigens" driven by CD4+ helper T cells. The compact collection of epithelioid cells which contain agents such as mycobacteria are rimmed by an outer zone of largely CD4+ T cells and laminated by fibroblasts. Over time, the fibroblast proliferate and lay down collagen which replaces the granulomas with hyalinized scars. The granulomas predominantly involve the interstitium rather than airspaces of the lung. In 10% to 15% of patients, the granulomas are eventually replaced by diffuse interstitial fibrosis resulting in honeycombed lungs.

The granulomas in the lungs can damage the normal lung tissue resulting in symptoms of shortness of breath, dry cough, and fatigue. Skin lesions are encountered in approximately 25% of patients. The hallmark of acute sarcoidosis is erythema nodosum consisting of raised, red, tender nodules on the anterior of the legs. Involvement of eyes occurs in 25% to 50% of patients. 75% to 90% of patients have enlarged intrathoracic hilar and paratracheal lymph nodes. 75% of patients have granulomas in their spleen and granulomas lesions in their liver. As many as 40% of patients' bone marrow is also involved. Constitutional signs and symptoms include fever, fatigue, weight loss, anorexia, and night sweats.

Wellness Recommendation

The wellness recommendation for sarcoidosis condition includes Soup A, Soup B, and LC Balancer. Soup A helps to repair damage in the lung and other tissue by increasing the metabolic activities of tissue regeneration, known as nurturing Lung Yin in TCM. It helps to increase the biosynthesis of proteins, DNA and mRNA, etc. as well as the supply of building blocks including amino acid, carbohydrate and other cofactors necessary to speed up new tissue growth. Soup B helps break down the granulomas and dissolve the lung scarring and fibrotic tissues by triggering the necessary catabolic process and enhancing the body's cellular and endogenous enzymatic activities toward scar removal. LC Balancer improves microcirculation to help nutrient supply and waste removal from the lung tissue.

Patients usually experience improvement in their breathing, coughing, and energy level in 2-4 weeks. A 3-6-month protocol is recommended in order to achieve a significant improvement in their lung structure. For patients with severe and end-stage sarcoidosis, a continuous maintenance dose, at one-third to one-half dose, is recommended after the full protocol with Soup A and LC Balancer. Wei Laboratories herbal formulations are not a permanent solution for patients with a severe or end-stage lung condition. The purpose is to get patients to their goal of a normal lifestyle and to maintain their lung health as well as to regain normal lung functionality. The continuous maintenance dose will also help to prevent further progression of lung damage. During the cold and flu season, it is recommended that these patients also have ClearLung and Jade on hand to take immediately upon the onset of symptoms such as colored phlegm and mucus. Jade boosts Lung Qi and enhances lung immunity to help eliminate viruses.

Since sarcoidosis may be caused by *Mycobacterium tuberculosis*, additional formulas including Java, Jade, ClearLung, and NewBase may also be required to address the mycobacterial infection. Java enhances lymphatic circulation and clears the cold and damp toxins to kill the bacteria by directly fighting against the parasitic germs and stimulating the production of intracellular antimicrobial peptides. Jade enhances Lung Qi to boost lung function especially the cell-mediated immunities in the respiratory tract. ClearLung helps clear inflammation and remove lung heat. NewBase helps remove kidney deficiency heat and improves adrenal function. Patients can experience symptom improvement in 1-3 days with less wheezing, coughing, shortness of breath, mucus and phlegm sinus congestion, and post-nasal drip. 3-4 weeks of treatment is required to have a significant improvement. If the sarcoidosis occurs in other organs or tissues, additional formulas may also be required to eliminate the *Mycobacterium tuberculosis* in those areas in addition to the use of Soup A, Soup B and LC Balancer.

Depending on how active the *Mycobacterium tuberculosis* is in the lungs, the need for the lung mycobacteria treatment can fall under the following three scenarios:

- 1) The first scenario is that the *M. tuberculosis* is still very active with free-floating bacteria in the extracellular space. Patients exhibit many infection related symptoms including coughing with lots of clear phlegm, post-nasal drip, and voice hoarseness instead of typical symptoms such as shortness of breath, dry cough, and fatigue symptoms. Patients are recommended to begin with Soup A, Soup B, and LC Balancer. If their shortness breath is not improving in 1-2 weeks, rather their phlegm and post nasal drip symptoms get worse, the Mycobacterial protocol should be used together with Soup A, Soup B, and LC Balancer right away.
- 2) The second scenario is that there are no active free-floating bacteria in the extracellular space. However, the bacteria encapsulated inside the granulomas are still active. As the scarring and granulomas begins to dissolve, the bacteria will become free-floating. Patients will initially experience improvements in their shortness of breath, dry cough, and fatigue symptoms. As treatment continues, if they start to experience infection related symptoms including coughing with clear phlegm, post-nasal drip, voice hoarseness then the Mycobacterial protocol should be added to their treatment right away.
- 3) The third scenario is that there are no free-floating bacteria and the bacteria encapsulated inside the granulomas are no long active. Patients will experience continued improvement with the Soup A, Soup B, and LC Balancer treatment. There is no need for the Mycobacterial protocol.

Complications and Additional Recommendations:

If the patient does not respond well to Soup A, Soup B, and LC Balancer in 2-4 weeks together with the use of Java, Jade, ClearLung and Newbase, or patients' improvement plateaus, additional formulas are required depending on the types of their complications.

a) Other Types of Lung Infections

The infection of *Mycobacterium tuberculosis* can significantly damage lung immunity and patients can be more susceptible to other types of co-infections including gram-negative bacteria, fungus, parasites, and viruses. CL-2 is recommended to clear gram-negative bacteria in the lungs. Fungal infections in the lung usually causes symptoms of difficulty breathing air into the lungs and CL-F is recommended to clear lung fungal infections. Lung parasite infections can cause water retention in the lungs and pulmonary hypertension. Pulmin and Respanin are recommended for lung parasites. Pulmin helps clear the infection. Respanin helps clear the die-off effect and irritation of the pulmonary blood vessel by the parasite toxins.

For acute viral infections in the lungs, ClearLung is recommended to help clear the lung infection and inflammation. For severe lung viral infections or if the infection becomes persistent, Jade is recommended to enhance lung immunity. If patients also develop non-respiratory symptoms such as fever, chills, or fatigue then Woad, Bitter, Brown, Qi Booster, and LC Balancer is recommended. Woad helps clear extracellular virus in the blood and other areas of the body. Bitter, Brown, Qi Booster, and LC Balancer helps enhance the immunity of the whole body. For persistent viral infections in the lung, Perilla together with Brown, LC Balancer and Xcel are required. Perilla helps enhance cellular immunity of the lungs to help clear the virus infected cells and Brown, LC Balancer, and Xcel help support the liver and kidney for effective waste removal.

b) Asthma

Asthma is a chronic inflammation of the airway that causes recurrent episodes of wheezing, breathlessness, chest tightness and cough, particularly at night and/or early in the morning. Recommended treatments include EzAir or Breez to reduce airway sensitivity and clear Liver Wind, in TCM terms. EzAir is for atopic asthmas caused by external agents. Breez is for non-atopic asthma caused by internal toxins. Patients should have a significant improvement in 1 week. A longer period of treatment is required depending on the severity of the condition.

c) Congestive Heart Failure and Lower Extremity Edema:

Lung conditions can cause right-sided heart failure with symptoms of lower extremity edema. Congestive heart failure also causes shortness of breath. Patients may take diuretics such as Lasix to get rid of ankle swelling by pushing the kidney to expel more water. Java is recommended to improve lymphatic circulation to lower the burden on the heart and improve the heart failure condition for better breathing. Patients should experience improvement in their breathing and water retention in 1-2 weeks. Longer periods of treatment may be required, depending on the severity of the condition. Patients may also have left-side congestive heart failure which is not related to their lung condition but due to their heart condition caused by heart attack, hypertension, mitral or aortic valve disease, and primary myocarditis. Myogen, CV, B-2 and Qi Booster is required for such conditions.

d) Poor Gastrointestinal Health:

Acid reflux can cause a cough and mucus formation due to the irritation to the respiratory tract. Poor digestion can cause less effective absorption of the Soups and patients may complain of stomach irritation with less optimal treatment results. Spring, SJ and Formula B are commended to improve digestion, nutrient absorption and resolve the acid reflux.

e) Liver and Kidney (Adrenal) Deficiencies:

Poor liver function can cause slowed metabolic toxin processing. Many metabolic toxins have to be modified by the liver or kidney oxygenases to oxidize them by adding -OH or =O group, or by methylation enzymes to add -CH₃ group, so that the kidneys can secrete them out. If these toxic compounds are processed too slowly by the liver and kidneys, or the kidneys can't secrete them promptly after being modified, they can be accumulated at high concentrations in the blood and cause irritation to lung tissue. Symptoms of kidney deficiency include low energy, difficulty staying asleep, water retention, flu like symptoms, or high blood pressure. Brown is recommended to improve liver function and Xcel is recommended to improve kidney function.

Complications	Recommended Products
Congestive Heart Failure & Lower Extremity Edema	Java and/or Myogen, CV, B-2 and Qi Booster
Acute Lung Infection	ClearLung and/or Bitter, Brown, Qi Booster and LC Balancer
Lung Viral Infections	Jade, Perilla, Brown, LC Balancer, Xcel
Systemic Viral Infection	Woad, Brown, Bitter, Qi Booster, LC Balancer
Asthma	EZAir and/or Breez
Mycobacterial Infections	Java, Jade, ClearLung and NewBase
Lung Parasite Infections	Pulmin and Respanin
Poor Gastrointestinal Health	Spring, SJ and Formula B
Liver Deficiency	Brown
Kidney (Adrenal Deficiency)	Xcel

Precautions:

Patients who are taking high dosages of vitamins or minerals should reduce them to the regular dosage to avoid an overdose, as LC Balancer improve absorption. Please take enough water when using the LC Balancer.

Selected Case Studies

Case 1: Elimination of Symptoms Due to Acid Reflux and Sarcoidosis

Robert Bartosh, DC, Danville, IL

A 67-year-old female patient presented with sarcoidosis and symptoms of acid reflux for over 30 years. In 2015, the patient had developed pneumonia for 2 months and the doctor ordered a biopsy of her lungs. Based on the findings, she was diagnosed with sarcoidosis. The patient also had a history of asthma and bronchitis, likely due to her working at a factory. She had been put on a Breo inhaler for the last two years which had prevented her from singing at church. The patient was also taking Nexium, Ranitidine, and Omeprazole for her acid reflux while still experiencing heartburn. The patient was seeking an alternative solution due to her experiencing side effects from her medications, such as kidney problems.

The patient was put on Wei Laboratories' Spring Juice, Spring Capsule, Formula B and Probiosis in October of 2017 for 3 weeks. The wellness recommendation was made by Dr. Bartosh to help enhance stomach acid production and reduce stomach inflammation to address the root cause of her acid reflux. For the next 4 months, the patient had no residual symptoms of heartburn and did not have to take the 3 medications for acid reflux.

After addressing her acid reflux, Dr. Bartosh recommended her to be on Wei Laboratories' Soup A, Soup B, and LC Balancer to break down the granulomas and help assist the lung in rebuilding new tissue. In January 2018, the patient reported being able to sing again. Her pulmonologist had mentioned that her lungs sounded clear. She had also been put on a diet that is gluten free, dairy free, no sugar, and no alcohol. She was encouraged to eat mostly proteins and vegetables. In February, the patient noticed that her sarcoidosis lumps were going away. She finished with two months of Soup A, Soup B, and LC Balancer and noticed she is now able to take deeper breaths.

Case 2: Successful Resolution of Sarcoidosis, COPD and High Blood Pressure

Gregory Lind, DC, Milpitas, CA (October 2016)

A 62 y.o. male patient who came to Dr. Lind was diagnosed with Sarcoidosis and COPD. The patient also had Ulcerative Colitis, Arthritis, and High Blood Pressure (140/85 even with the use of 4 medications). The patient's CT scan before receiving treatment shows 1) lung: reticular nodular infiltrate and 3 nodules in the right lower lobe, 2) pancreas was fatty infiltrated, 3) bones had mild osteopenia.

Dr. Lind recommended Wei Lab's Soup A, Soup B, and LC Balancer for the patient's lung condition and Probiosis, and Spring Juice for his gastrointestinal condition. A month later, the patient reports the products had been incredible for him and he felt his lungs were transforming. He can walk a longer distance and more easily climb upstairs. Also, he felt his stomach condition was improved. In order to address the high blood pressure issue, Dr.

Lind recommended adding Wei Lab's KS and Xcel to improve his kidney condition and Brown and Qi booster to strengthen his liver. After continuing the new treatment for 2 months, the patient reported his colon was no longer ulcerative, and he no longer had diarrhea and digestion problems. The patient mentioned he was sexually dysfunctional and he couldn't sustain an erection. Dr. Lind recommended Wei Lab's M-Strong to address this issue. After about a month, the patient reported M-Strong worked really well and his erectile dysfunction had been much improved.

Three and a half months after the patient had initially received treatment, the patient stopped having any shortness of breath and no longer used inhalers. He was able to reduce his high blood pressure medicine from 6 pills to only 2. He found that his immune system became strong enough even without continuing taking the products. The patient's chest CT scan confirmed the improvement in his lungs and his overall health condition: 1) in his lung: the nodular infiltrate previously associated with one of the solid nodules in the right lower lobe has nearly completely resolved without residual mass and inflammatory component; 2) the pancreas is normal in appearance; 3) in his bones: the osteopenia was reduced to minimal. The patient happily reported that he felt 10 years younger.

Case 3: Successful Resolution of Sarcoidosis and Asthma

Anthony Badalamenti, BS, DC, CCOHP, Aurora, Ohio

A 50 y.o. female patient came for treatment as she had been diagnosed with a history of asthma at the age of 48. The pulmonologist had found out about Sarcoidosis (lack of lung contraction with white spots through the entire lung) as the underlying symptom based on blood work and x-rays. She had been unable to deal with extreme weather conditions for several years (could not be outside for more than 5 minutes being exposed to extreme heat or humidity). The pulmonologist had prescribed a regiment of 25mg of Prednisone per day for a total of one year. The symptoms had changed very little in the following year. Therefore, the patient came for treatment to Dr. Badalamenti.

An herbal regimen of Soup A, Soup B, and LC Balancer from Wei Laboratories was recommended for 2-3 months. Dr. Badalamenti also provided the patient with supplements and nutrients as well as chiropractic work was applied. After 2 months of herbal treatment, the patient's major symptoms had been eliminated. Though still using the inhaler, the patient could now walk outside in 5-degree weather without asthmatic attacks. After 1.5 years of continued treatment, the patient had been taken off the Prednisone completely (very difficult process which was supervised by the pulmonologist). Dr. Badalamenti continued to do chiropractic adjustments to the lower cervical and thoracic spine. The patient was also kept on supplements and nutrients.

The overall results of the protocol have been amazing. X-rays taken by the pulmonologist every six months testified a substantial decrease of the white spots in the lungs. The patient is using the inhaler for preventative reasons now.

She can do all kinds of physical activities (e.g. cardiovascular exercise). She walks her dogs under any weather conditions. She has been in good shape for 3 years now and needs to see the pulmonologist once a year only.

Case 4: Successful Improvement of a Sarcoidosis Patient in Four Months

Dr. Jonathan Daniel, DC/Lac, NY

A 77 y.o. male patient came to Dr. Jonathan Daniel for treatment of Sarcoidosis. Symptoms included shortness of breath with a lot of mucus production. His current treatment regimen included the use of multiple inhalers and prednisone which, according to the patient, had worked before, but lately he seems to be getting worse and worse.

Dr. Daniel recommended Soup A, Soup B and LC Balancer formulas from Wei Laboratories. Dr. Daniel instructed the patient to take the herbal formulas at full dosage according to the protocol. The patient started using Wei Lab products in June 2017 and ended October 2017.

After 4 months of treatment, the patient reported his phlegm had dissipated, breathing had gotten much easier, and energy had greatly improved. The patient requested a Trend Report of his Pulmonary Function Tests from

Mount Sinai Medical Center to confirm the improvement. The test results went from 4/21/2017 to 10/18/2017 showed an increase in his FEV1 (Forced Expiratory Volume in 1 second), FVC (Forced Vital Capacity), and DLCO (Diffusing Capacity). FEV1 increased from 1.47 to 1.51, FVC increased from 2.75 to 2.89, and DLCO increased from 11.5 to 13.6.