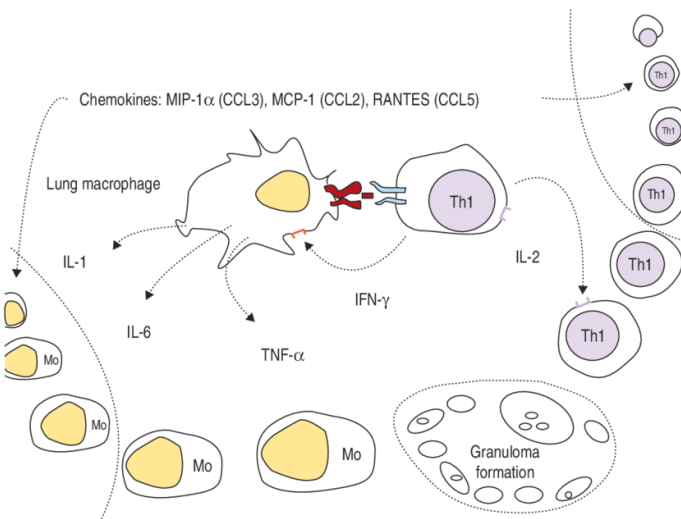


**Sarcoidosis** is a multisystem disease characterized by non-caseating granuloma formation. Although the lungs are involved in 90% of patients, sarcoidosis can occur in the lymph nodes, eyes, and skin as well.

Skin lesions are encountered in approximately 25% of patients. The hallmark of cutaneous sarcoidosis is erythema nodosum which is the most common type of skin lesion. Erythema nodosum consists of raised, red, tender nodules on the anterior of the legs, disfiguring sores (lesions) on the nose, cheeks, and ears; areas of skin that are darker or lighter in color; growths under the skin (nodules), particularly around scars or tattoos.



Granuloma formation in the lung can damage normal lung tissue resulting in symptoms of shortness of breath, dry cough, and fatigue. 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.



### Cause

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.

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 fibroblasts proliferate and lay down collagen which replaces the granulomas with hyalinized scars.

### Wellness Recommendation

In TCM, the Lung and Skin are paired organs. Nurturing lung will help resolve skin problems. The wellness recommendation for skin sarcoidosis condition includes Soup A, Soup B, and LC Balancer. Soup A helps to repair damage in the skin 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 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 skin tissue.

Patients usually experience improvement in their skin condition in 2-4 weeks. A 3-6-month protocol is recommended in order to achieve a significant improvement. 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 sarcoidosis condition. The continuous maintenance dose will also help to prevent further progression.

Since sarcoidosis may be caused by *Mycobacterium tuberculosis*, additional formulas that address skin mycobacterial infections may also be required. See table below.

#### Product Summary

	Product	Description
<b>First Line:</b>		
	Soup A	Repair Damage, Promote New Tissue Growth
	Soup B	Dissolve Scarring and Fibrotic Tissue
	LC Balancer	Improve Microcirculation
<b>Second Line (myco):</b>		
	Dermaticin A	Internal – Clears Skin Myco Infections
	Dermaticin B	External – Clears Skin Myco Infections

#### 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.