

DEEP IMMUNE ACTIVATION

COMPOSITION

Astragalus membranaceus
Bupleurum falcatum
Ganoderma lucidum
Trametes versicolor

Ganoderma tsugae
Lentinus edodes
Ganoderma applanatum
Agaricus blazei

Inonotus obliquus
Grifola frondosa
Glycerrhiza glabra
Eleutherococcus senticosus
Ascorbic acid

PREPARATION

Mushrooms are hot water extracted and concentrated. Marc is extracted a second time with 95% alcohol. Fractions combined to make 1:5 20% tincture. Herbs are tinctured by pharmacopoeia standards. All liquids are combined for final product.

SYNTHESIS and MECHANISM OF ACTION

The science of Psychoneuroimmunology reveals the intricate interconnections between the immune system, the endocrine system, the nervous system and the mind.

Deep Immune Activation is formulated employing the concept of this new science.

Many of the side effects of chemotherapy and radiation treatments can be mitigated by the above formula and recovery times shortened.

It is also good for any post-operative care to aid the patient from exposure to pathological infections encountered in the hospital.

Obviously this should be used as a preventive treatment before entering a hospital or palliative care facility.

May be used as a Fu Zhang tonic.

The *Ganoderma* species exhibit the ability to aid the body in oxygen utilization.

Ganoderma lucidum is taken by Asian mountain climbers, and high altitude workers.

Glycerrhiza glabra is soothing and anti inflammatory to the lungs. A reduction in stress may lead to better breathing.

Basic Phytochemicals; Polysaccharides & Triterpenoids

Polysaccharides offer the highest capacity for carrying biological information because they have the greatest potential for structural variability and the largest molecular weight of all herbal phytochemical metabolites by several orders of magnitude.

Polysaccharides act as immunomodulators working within the Specific or Humoural immune system.

Increased incidence of spontaneous tumours in immunocompromised individuals indicates that the immune system provides significant mechanisms for host resistance against cancer.

Polysaccharides restore or augment the responsiveness of host cells to lymphocytokines, hormones, and other biologically active substances by way of stimulating the maturation, differentiation, or proliferation of cells involved in host defense mechanisms e.g.: T & B cells, macrophages and NK cells. The stimulation of these immune effector cells results in the production of cytokines such as interferon (INF), interleukins (IL), tumour necrosis factor (TNF), colony stimulating factors (CSF) and chemokines.

The triterpenoid fraction of the mushrooms provides the complementary actions blood pressure regulation, cholesterol reduction, blood sugar regulation, immunomodulation, oxygen uptake, and liver protection.

Cytokine families: Family Members & Comments

Interleukin (IL) IL-1 to IL-22: Different IL have different functions and are secreted by different cells.

Interferon (IFN): IFN α Leucocyte IFN Inhibits viral replication. IFN β Fibroblast. IFN Inhibits viral replication.

IFN γ Secreted by T lymphocytes and NK cells has many immunoregulatory functions.

Tumour necrosis Factor (TNF) TNF α Secreted by monocytes and other cells. Factor activates macrophages and endothelial cells. TNF β Secreted by T cells. Similar activity to TNF α

Colony- stimulating Factors (CSF) G-CSF, M-CSF, GM-CSF and others.

Originally identified by ability to make bone marrow cells differentiate into particular cell type, e.g. neutrophil.

Also have effects on mature cells of same lineage, e.g. monocytes, macrophages and neutrophils.

Chemokine MCP, Ecotaxin and others. Very important in controlling the migration of cells between and within tissues. Also influence function of many cells. (Memler & Wood, 2001)

Astragalus membranaceus
Bupleurum falcatum
Ganoderma lucidum

Adaptogen, Immunostimulant
Anti-inflammatory, Hepatoprotective
Adaptogen, Apoptosis inducer, Antihypertensive (ACE inhibiting), Anticancer,
Antiinflammatory, Antimicrobial, Antitumour, Antioxidant, Cardiovascular
tonic, CNS sedation, Hepatoprotective, Immunomodulator,
Inhibits viral induction, Inhibits cholesterol synthesis,
Inhibits histamine release, Lung tonic

VIRIDITAS HERBAL PRODUCTS

DEEP IMMUNE ACTIVATION

<i>Agaricus blazei</i>	Anticancer, Antitumour, Antiviral, Hepatoprotective, Immunomodulator
<i>Ganoderma tsugae</i>	Adaptogen, Antibacterial, Anticancer, Antitumour, Immunomodulator, Respiratory tonic
<i>Ganoderma applanatum</i>	Adaptogen, Antibacterial, Anticancer, Antitumour, Immunomodulator, Respiratory tonic
<i>Lentinus edodes</i>	Adaptogen, Antibacterial, Anticancer, Antitumour, Antiviral, Cardiovascular tonic, Cholesterol control, Hepatoprotective, Immunomodulator
<i>Glycerrhiza glabra</i>	Adaptogen, Anti-inflammatory, Antiviral, Demulcent, Expectorant
<i>Eleutherococcus senticosus</i>	Adaptogen, Immunomodulator
<i>Inonotus obliquus</i>	Antibacterial, Anticancer, Anti-inflammatory, Antiviral, Antioxidant, Blood sugar regulator, Immunomodulator
<i>Grifola frondosa</i>	Antibacterial, Anticancer, Antitumour, Antiviral, Cardiovascular tonic, Immunomodulator, Respiratory tonic
<i>Trametes versicolor</i>	Antibacterial, Anticancer, Antitumour, Immunomodulator
Ascorbic acid	Antioxidant, increases mushroom polysaccharide absorption

INDICATIONS

Autoimmune Conditions: Multiple Sclerosis (MS), Rheumatoid Arthritis, Myasthenia Gravis, Hashimoto's thyroiditis, Systemic Lupus Erythematosus (SLE) etc...

Bone marrow diseases: Lymphoma, Neutropenia, Chronic Lymphocytic Leukemia

Cancer

Chronic Fatigue

Epstein-Barr virus

Hepatitis: Hep. A, Hep. B and Hep. C

High Altitude Work or Vacations

Human Immuno-Deficiency Virus (HIV) and Acquired Immune Deficiency Syndrome (AIDS)

Hyper Immune reactions: Chronic Allergies

Immune Suppression from cancer chemotherapy or radiation therapy

Inflammatory diseases: Arthritis (Osteoarthritis, Rheumatoid Arthritis, Psoriatic Arthritis), Asthma, Atherosclerosis, Crohn's disease, Colitis, Dermatitis, Diverticulitis, Fibromyalgia, Hepatitis, Irritable Bowel Syndrome (IBS), Systemic Lupus Erythematosus (SLE), Nephritis, Ulcerative Colitis

Nervous tension

Post-infection

Post-traumatic or surgical recovery

Post-parasitic

Post-antibiotic treatments (in conjunction with probiotics)

Preparation and prevention of seasonal colds and flu

Regulating Psychoneuroimmunology

Stress

Tumours

CONTRAINDICATIONS, WARNINGS AND INTERACTIONS

NONE known

DOSAGE diluted in a small amount of water

Loading dose:

Adult: 5mL – 15mL TID

Children: 3mL – 10mL TID

Long term:

Adult: 3mL – 5mL TID

Children: 3mL – 5mL TID

DEEP IMMUNE ACTIVATION

SYNERGY & COMPOUNDING

FOR CUSTOM FORMULATION

As you look at the DEEP IMMUNE ACTIVATION formula you see it does many things in the herbal action section but you may select an additional formula or action to make your custom formula match up with the individual physiological needs and presentations of your patient more precisely.

Combines well with:

- ALTERA-LYMPH – for Breast Cancer
- CARDIOTONER – to strengthen heart contractions and cardiac output
- EVERJOY – for malaise, depression and chronic fatigue
- HCV – to mobilize the immune system in cases of Hepatitis C
- HEARTS EASE – to increase oxygen utilization in patients with cardiovascular insufficiency
- HEPATO PURE – to regulate immunohisto compatibility and food sensitivity
- HERBAL FIRST DEFENCE – may be combined for immunological collapse or massive infections
- HOXSEY TONIC – for Cancers and immunocompromised individuals caused either by their cancer or their chemotherapy
- RHEUMA-REM – to address the auto-immune components of Osteoarthritis as well as the degenerative and inflammatory elements and for Fibromyalgia
- THREE GINSENGS TONIC – for Chronic fatigue and Fibromyalgia
- THYROSTIM – for Hashimoto's thyroiditis
- TICK ATTACK – for Lyme's disease
- PROST AID – for Cancer prevention in the prostate
- REJUVA-LYMPH – for most Cancers and for Post-traumatic or surgical recovery
- UPPER RESPIRATORY AND SINUS – for chronic allergies
- URASEPTIC – for Urinary Tract infections

If the above suggestions do not fit your needs, you may continue on linking with the catalogue.
For additional symptoms & conditions link first to the system involved, select the actions required and then chose an herb from the action category:

CARDIOVASCULAR SYSTEM ACTIONS
DIGESTIVE SYSTEM ACTIONS
ENDOCRINE SYSTEM ACTIONS
FEMALE REPRODUCTIVE SYSTEM ACTIONS
IMMUNE SYSTEM ACTIONS
INTEGUMENTARY SYSTEM ACTIONS
MALE REPRODUCTIVE & URINARY SYSTEM ACTIONS
MUSCULOSKELETAL SYSTEM ACTIONS
NERVOUS SYSTEM ACTIONS
RESPIRATORY SYSTEM ACTIONS