

## Antioxidant IV

The Cole Center for Healing has developed Intravenous therapies using two of the most potent antioxidants available, Glutathione (GSH) and alpha-lipoic acid (DHLA). We have two types: a simple IV using only a few nutrients with GSH or DHLA, and a complex IV using multiple vitamins and minerals. The latter should be used in any state of extreme stress, or if you have not been on vitamin/mineral supplementation.

### GSH

There is a direct correlation between levels of GSH and health: decreased levels are associated with poor health, and higher levels with good health. GSH is one of the most important antioxidants. Its highest concentration is in the liver, where it plays a crucial role in detox. GSH also has one of the highest concentrations of any antioxidants inside the cells. This is critical, as oxidants are the principal contributors to degenerative diseases and the progressive loss of organ function, which we recognize as aging.

GSH plays a role in protein synthesis, enzyme function, membrane transport, receptor action, cell maturation, immune cell growth and function, nervous system function, pancreatic function, and others. These are basic functions affecting all areas of health. Most stressors deplete GSH, including dietary deficiencies, Tylenol, injury, poor circulation, infection, alcohol, strenuous aerobic exercise, illness, ionizing radiation (X-rays, sunlight), and halogenated hydrocarbons (contained in pesticides, dry cleaning solutions, herbicides, and plastics: they are found in the fat tissue of every human alive today).

GSH repletion is essential for recovery. Failure to do so results in degenerative illnesses, including all autoimmune disorders (rheumatoid arthritis, lupus, etc.), nervous system disorders ([Parkinson's](#), tardive dyskinesia, [Alzheimer's](#), ADD/ADHD, schizophrenia, etc), arteriosclerosis, cataracts, pancreatic inflammation, asthma, COPD, and others. GSH is also very effective in removing heavy metals and improving sickle cell disease. In addition, it is extremely helpful in all conditions affecting the liver. Over 200 conditions are associated with low GSH levels.

We also now know, thanks to the work of Dr. Kremer, that GSH is a critical item in cancer treatment and prevention. Unless GSH levels are restored, it is unlikely that any significant progress can be made. We use GSH both orally and IV as part of the Cellular Restoration Program.

### DHLA

DHLA is the only known antioxidant to be both fat and water soluble, giving it some unique abilities. It is considered by many to be the ideal antioxidant. It helps to regenerate other antioxidants, and can help to increase levels of GSH, vitamin C and E, and CoQ10. It also helps to protect DNA, remove heavy metals, protects tissue from damage due to heavy metals and chemicals, improve diabetic neuropathy and other diabetic complications, cataracts, glaucoma, injury due to poor circulation, Alzheimer's, Parkinson's, and most neurological disorders.

The combination of GSH and DHLA makes for a potent combination capable of improving a wide variety of conditions, making it suitable for everything from cancer to anti-aging. There are no known side effects at therapeutic doses.

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