

## Glutathione IV Treatment

Glutathione (GHS) is a vital antioxidant naturally produced by the human body from three amino acids: glycine, glutamic acid, and cysteine. GHS helps to neutralize the toxins and free radicals we encounter everyday by binding to them, making it easier for the body to excrete them. Unfortunately, as we age the amount of GHS the body makes decreases. Additionally, if our body is overburdened with toxins and oxidation, we cannot produce enough GHS to keep up with the demand.

GHS can be given orally or intravenously. The intravenous method is preferred, as our digestive system breaks down the GHS before it can travel systemically. IV glutathione can be used in a variety of conditions due to its ability to decrease inflammation, chelate heavy metals, promote detoxification, and strengthen the immune system. Low levels of GHS have been discovered in patients with autism, multiple sclerosis, ADD/ADHD, diabetes, Parkinson's disease, post concussive symptoms, and cancer, among many other conditions. Due to its ability to prevent radiation injury, IV GHS may also be used prior to radiation treatment.

Benefits of IV GHS treatment may include enhanced liver detoxification, decreased systemic inflammation, improved skin quality, increased energy, and quicker recovery after exercise, as well as condition specific improvements.

## Treatment Specifics

Initially, 600mg (3cc) of glutathione is given, combined with equal amounts sterile water. Depending on your tolerance, the dosage will be increased up to 1400mg (7cc) of glutathione. Treatment may be administered 1-5 times per week, depending on your doctor's recommendations. The treatment will take 5-15 minutes, depending on the dose.

Side effects are rare and most commonly include irritation at the site of infection or a small bruise. Rare side effects include temporary numbness in the hands from rapid infusion or symptoms of a detox reaction such as a headache and body aches.

