

# Vitamin C Therapy; Intravenous vs Liposomal

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*“When we look at high doses of vitamin C given intravenously as an actual chemotherapeutic agent, we have wonderfully uplifting news for every cancer patient in the world. It’s easy, safe, and inexpensive to have a physician give an IV. You just have to insist on it. I believe in the next ten years this will become more accepted. But people with cancer can’t afford to wait, and the ones who are already dead have been grossly mistreated by the medical profession and a government that’s supposed to encourage free research and development of all possibilities.”* Dr Andrew W. Saul

## The benefits of high dose vitamin C

The vast majority of species in the animal kingdom are able to synthesize their own vitamin C. For example, a dog will synthesize approximately 18 mg of vitamin C for every pound of body weight, thus allowing a 50-lb. dog to produce about 900 mg per day, and a goat weighing 150 lbs will synthesize more than 13,000 mg of vitamin C per day during normal healthy function. This natural biosynthesis will increase in production when the animal is sick, injured, or under stress. As an example, a goat that is under stress will increase production to about 15,000 mg per day.

The ability to synthesize vitamin C is lacking in humans, some primates, bats and Guinea pigs because these mammals lack the gene that is responsible for manufacturing vitamin C, therefore it must be introduced through the diet.

The Recommended Daily Allowance of vitamin C for an adult is only 60 to 95 mg per day, and as you can see is grossly inadequate compared to the examples above. This minimal amount may be enough to ward off the development of [scurvy](#), but it is certainly not enough to promote good health in an individual, or to heal from a serious illness. Your body, just like that of any other creature, will require even more vitamin C when YOU are sick, injured or under stress.

Vitamin C is responsible for wound healing and immune system function. Vitamin C is destroyed when food is cooked, so eating plenty of raw foods that are high in vitamin C is essential. Also, vitamin C is a water soluble vitamin, meaning it is not stored in the body although it is utilized continuously by the body.

## Intravenous vitamin C

IVC is selectively toxic to cancer cells yet it will not harm healthy cells. High doses of vitamin C given intravenously, usually between 25-100 grams, has a pro-oxidative effect on cancerous cells. The mechanism involves the generation of hydrogen peroxide within the tissues that accumulate the vitamin C. One theory involves vitamin C displacing iron from its carrier protein and the subsequent intracellular generation of hydrogen peroxide. This is selectively toxic to cancer cells because they lack the catalase enzyme which healthy cells have in abundance. If this reaction

cannot occur efficiently due to lack of the enzyme, the hydrogen peroxide can react with the displaced iron and create an excess of free radicals. These free radicals can help stimulate apoptosis (or cell suicide) in the cancer cells.

IV treatments are generally painless and are non-toxic. They are given as a slow IV drip over 45 minutes to 2 hours depending upon the dose. Alternative and integrative clinics can be found across the US, and this type of nutritional support can be done in conjunction with chemotherapy/radiation, or as a stand alone therapy. Currently IV Vitamin C is being studied for its cancer healing properties. [Use this link to find an alternative health practitioner for IV vitamin C therapy](#)

Using intravenous vitamin C for cancer therapy

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News report on study involving intravenous vitamin C for therapy

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## Liposomal Vitamin C

Although Intravenous Vitamin C can deliver high doses of vitamin C directly into the bloodstream, it is estimated that only about 20% of it will actually be absorbed at the cellular level. This is because the intravenous solution is water-based but the cellular membrane is made up of fatty acids, which will inhibit its absorption. [Liposomal Vitamin C](#) is vitamin C that has been encapsulated within a lipid (fat) and this allows the vitamin C to easily cross through the lipid based cellular membrane, giving it about a 90% absorption rate. This information was confirmed by vitamin C researcher, [Dr Thomas Levy](#), who stated, “I subsequently realized that the liposome gave the ultimate bioavailability: intracellular delivery, including the mitochondria, endoplasmic reticulum, and even the nucleus... 2 to 6 packets daily covers most individuals for most situations.” In addition, more information can be found in the faq on [this website](#). The following dosage information was shared with me by an IVC infusion specialist who specialized in treating cancer and other serious illnesses.

### The recommended dosage of Liposomal Vitamin C for various health issues

**For general good health:** about 2 grams, or 2,000 mg, is the optimal dose for maintaining health. This is 1,000 mg taken twice per day

**For those facing health challenges such as a cold or flu:** 4 – 6 grams, or 2,000 mg that is taken three times per day

**For serious infection or cancer, etc:** 8 – 10 grams, or 2,000 mg that is taken four or five times per day

**Dosage of liposomal C in order to reach intravenous levels:** 10 grams, taken in divided doses throughout the day can be as clinically effective as having a 100 gram vitamin C infusion. Taking a high dose of Liposomal C will only cost you about \$10.00 compared to \$200.00 for IV infusion.

News story of a New Zealand man who was given up for dead by conventional doctors. His family requested that he be given high doses of vitamin C that subsequently cured his pneumonia and also cured his underlying hairy cell leukemic condition which is mentioned at 5:52.

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Andrew Saul on nutrition and cancer

### **Contraindications**

- One of the contraindications relating to vitamin C supplementation is a glucose-6-phosphate dehydrogenase deficiency. This is an inherited condition where the individual doesn't have the G6PD enzyme. G6PD helps the body to function normally and very high dose vitamin C may cause hemolytic anemia in those with this condition.
- Other contraindications may include allergies to the sunflower lecithin that are used in the liposomal preparations.
- Those with iron overload issues should know that vitamin C increases the absorption of iron and can cause problems, therefore you should discuss this therapy with your doctor before beginning this therapy.
- Individuals who are pregnant, young children, and anyone taking blood thinning medications should discuss vitamin C therapy with their doctor before beginning although you will find that most doctors have very little experience with this protocol.
- High dose vitamin C therapy is not compatible with some other alternative therapies such as graviola, paw paw, and the Budwig Protocol, among others.

### **Additional Resources:**

[Use this link to find an alternative health practitioner for IV vitamin C therapy](#)

[Using DMSO and vitamin C protocol](#)

[Information on the MSM/liposomal vitamin C protocol](#)

[How to make IV vitamin C under the supervision of a doctor](#)