How to Lower Iron without Phlebotomy

In my book, Dumping Iron, I wrote a section about the use of natural iron chelators to lower iron (ferritin) levels. These chelators include IP6, curcumin, green tea extract, and quercetin. Here’s what I wrote:

Most or all of these natural compounds have not undergone clinical trials in humans to determine how well and how much they can remove iron from the body, and their ability to do so is based on experiments using lab animals or cell culture. So there’s no hard data on how well they work in people. There are anecdotal reports of people greatly lowering their ferritin levels with some of these compounds, but they are after all just individual stories, so results may vary a lot between different people, depending on dose and lots of other factors.

If you use any of these natural compounds for lowering iron, you should therefore monitor your iron levels using periodic ferritin testing to ensure that you get the results you want.

Clinical trials using these iron chelators are not likely to happen any time soon, since they are all cheap and not patented, and therefore are unable to make profits for pharmaceutical companies. Add to that the fact of a prejudice in favor of drugs for any treatment, along with the generally unrecognized dangers of iron; basically no one in any position to do something about it cares about these natural compounds. Dosages of these compounds for iron chelation are not known with certainty, and the suggested doses on the label should not be exceeded.

Given the above, I was delighted to hear from a reader of my book that she
had lowered her ferritin greatly using natural chelators.

She stated that she found out two years ago that she had hemochromatosis, and her ferritin level was over 400. She's fortunate she found it at that point, because that's not a super-high ferritin value, although it would be for someone without the disease. Some hemochromatosis patients have ferritin levels in the thousands.

She began taking two scoops a day of IP6, a special formulation called IP6 Gold. This product was developed by Dr. Shamsuddin, the scientist who did most of the important research on IP6, and besides IP6 contains inositol, which he says makes it much more effective. One scoop is 6.9 grams, containing 3.2 grams IP6. (For comparison, I’ve been taking only 500 mg of IP6.)

She also takes curcumin three times a day. Curcumin is also an iron chelator.

In only a year and a half, she lowered her ferritin to just over 100, a much safer level.

That’s an amazing result. She has not donated blood nor had any therapeutic phlebotomies.

She stopped eating red meat, which is high in iron, and she stopped drinking alcohol, which increases iron absorption. She drinks coffee and green tea with meals, which inhibits iron absorption.

I think we can now say that hard data, as seen in lab testing, shows that one can greatly lower ferritin through natural iron chelators. If you are ineligible to donate blood, this looks like a good path to take for lowering iron.

Check out my book, Dumping Iron: How to Ditch This Secret Killer and Reclaim Your Health, for much more. Check out my supplements guide for more information on these natural iron chelators.

As of this writing, Life Extension still has a sale on ferritin testing.
Anti-Cancer and Neuroprotective IP6

IP6, or inositol hexaphosphate, is a natural phytochemical derived from rice bran but also found in grains and vegetables. Also known as phytic acid or phytate, it’s sometimes considered an “anti-nutrient”, meaning that it inhibits the absorption of other nutritional elements. It turns out that those anti-nutrient properties make it anti-cancer and neuroprotective. IP6 is cheap and safe.

IP6 may prevent and treat cancer

IP6 has been known for some time to be anti-cancer.\(^1\)

A striking anti-cancer action of IP6 has been demonstrated both in vivo and in vitro, which is based on the hypotheses that exogenously administered IP6 may be internalized, dephosphorylated to IP1–5, and inhibit cell growth. Besides decreasing cellular proliferation, IP6 also causes differentiation of malignant cells often resulting in a reversion to normal phenotype. These data strongly point towards the involvement of signal transduction pathways, cell cycle regulatory genes, differentiation genes, oncogenes and perhaps, tumor suppressor genes in bringing about the observed anti-neoplastic action of IP6.

In cell culture, IP6 significantly inhibits the growth of pancreatic cancer.\(^2\) “Our findings suggest that IP6 has the potential to become an effective adjunct for pancreatic cancer treatment.”

IP6 has been shown to inhibit the growth of colon, breast, prostate, liver,
and skin cancer cells. (See here for a list.)

**IP6 shows efficacy against Parkinson’s and Alzheimer’s**

IP6 also has been proposed to treat Parkinson’s disease.\(^{(4)}\) In Parkinson’s, dopamine neurons progressively decay and die, and this appears to be closely related to the content of free iron in those parts of the brain. IP6 chelates iron in a cell-culture model of Parkinson’s.\(^{(5)}\)

It’s been suggested that IP6 may also be able to treat Alzheimer’s disease.\(^{(8)}\)

One concern about the use of IP6 for Parkinson’s is that it’s ability to cross the blood-brain barrier is unknown.

We noted in another article on iron and the brain that the dopamine neurons in all humans decay and die at a rate that sets an upper limit to human life at about 115 years. The difference with people who get Parkinson’s is merely that the rate of decay of dopamine neurons is faster: when only 30% of dopamine neurons are left, overt Parkinson’s disease becomes apparent, and when only 10% remain, death ensues. For those who don’t suffer from Parkinson’s, the theoretical point of only 10% of the dopamine neurons remaining comes at age 115.

It follows that IP6, by preventing or perhaps even reversing Parkinson’s disease through iron chelation, could extend human lifespan. Indeed, iron restriction extends lifespan in *C. elegans* and in mice.\(^{(6)}\) Iron supplementation decreases lifespan in *C. elegans* by promoting protein insolubility.\(^{(7)}\) “Increased dietary iron significantly accelerated the age-related accumulation of insoluble protein, a molecular pathology of aging.”

As one can imagine, one reason IP6 is not better known is because it is so cheap and cannot be patented, so drug companies can’t make any money from it; therefore they don’t fund research into it.

The major mechanism of action of IP6 appears to be that it chelates iron: it attaches to free iron atoms and then is eliminated from the body. Cancer cells require large amounts of iron to grow and reproduce, and when iron is taken away from them they can no longer do so. This may help explain the Warburg effect, in which cancer cells preferentially metabolize glucose anaerobically — this could be due to mitochondrial damage from large amounts of free iron.

I’ve added IP6 to my own supplement regimen in my quest to lower my ferritin level, which was 137 last I checked. I got it from [Bulk Supplements](https://www.bulksupplements.com), which sells a half kilo for $30. (Smaller weights are available.) One-quarter teaspoon is about 500 mg of IP6, and this can be taken first thing in the morning on an empty stomach. The taste is completely innocuous and bland. Taking it on an empty stomach means that the IP6 will not merely chelate minerals in one’s food, but will be absorbed into the body where it can
chelate iron already there.

As mentioned above, one concern about IP6 is whether it can cross the blood-brain barrier, a relatively impermeable border crossing that allows only select agents across in order to protect the brain. Whether it can do this or not does not prevent IP6 from chelating iron elsewhere in the body and performing its other anti-cancer functions.

But it’s worth noting that other polyphenols that act as iron chelators do cross the blood-brain barrier. These include EGCG (from green tea) and quercetin.\(^7, 8\.)

**Key points**

- IP6 has strong anti-cancer properties
- IP6 protects neurons from cell death
- It chelates iron, probably its main mechanism of action
- It may be able to prevent or treat Parkinson’s and Alzheimer’s diseases
- IP6 is cheap and safe

For more on this topic, see my book, *Dumping Iron.*

PS: [See also my Supplements Buying Guide for Men.](#)