

QUANTUM MEDICINE
FOR A QUANTUM BODY!



12 Health Benefits of Carbon C 60

BIOPTRON Fullerene Filter

1 INCREASES LONGEVITY

The Paris or Baati study is likely the most famous experiment performed using carbon-60. The findings reveal that this molecule is not only non-toxic but increases the lifespan of rats by 90%!³

Part of this is possibly due to the fact that Carbon-60 has a high affinity for both cellular and mitochondrial membranes.⁴ It helps protect both of these structures, which are integral to the lifespan of our cells and ultimately us.

There are several studies proving that water-soluble C60 prevents mitochondrial dysfunction⁵, which promotes longevity, as well as optimal health and increased energy levels. One in particular showed that rats exposed to fatal levels of radiation managed to survive for 30 days after the event, thanks to good old buckyballs!

2 SCAVENGES FREE RADICALS

Ever since the first experiments were conducted on buckyballs, it was concluded that this molecule acts as a free radical sponge, mopping up any that it encounters. It has been reported that this molecule has an antioxidant capacity **several hundred** times higher than other antioxidants!⁶

What makes fullerene 60 even more amazing is its strong cage-like structure. The free radicals it takes out the body don't affect its shape or function, allowing for it to continuously deal with free radicals until it leaves the system (which has been shown in the Baati study to be 97 hours from the bloodstream of rats).

Unlike other antioxidants, which can bind to free radicals molecule-for-molecule, carbon-60 can accumulate dozens of them before it can no longer do so. For example, it has been reported that C60 can hold up to 34 methyl radicals at one time!

This combined with its ability to by-pass cellular membranes, including the blood-brain-barrier⁷, as well as its affinity for DNA, mitochondria and cellular membranes, place C60 within a league of its own. Moreover, once the free radicals have bound to it, they are 100% neutralized and do not interact with C60 or anything else along the way.

Another research paper showed that a specific malonic acid form of C60 mimicked the action of SOD, removing superoxide, which is a harmful by-product produced by cells. This shows that scavenging free radicals is not Carbon-60's only means of acting as an antioxidant, but that it is capable of neutralizing pollutants via chemical reduction reactions too.⁸

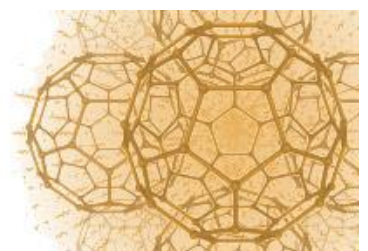
3 REDUCES INFLAMMATION & SYMPTOMS OF ARTHRITIS

Seeing as Carbon-60 is such potent free radical scavenger, it makes sense that it helps reduce inflammation, especially as seen in arthritis. In both human cell cultures and rats which had arthritis, water-soluble C60 suppressed inflammation in the joints and bones.⁹

From a mitochondrial perspective, buckminsterfullerene helps to bring the mitochondria back into balance, which corrects the immune system and results in less bodily inflammation as a whole.



**Fullerene C₆₀
Filter**
Quantum Medicine
for a quantum body.



4 IMPROVES IMMUNE FUNCTION

Aside from protecting mitochondria and cells from free radical damage, water-soluble C60 has been shown to stimulate the immune system in other ways.

These include stimulating the production of immune cells such as lymphocytes (white blood cells) and useful cytokines, such as TNF-alpha, both of which play a key role in fighting off infections and even tumor cells.¹⁰

Thanks to the potent antioxidant ability of this miracle molecule, it can stop you from having allergies and severe allergic reactions¹¹(anaphylaxis). Levels of histamine, IgE's and other inflammatory compounds associated with allergy were greatly reduced with the intervention of carbon-60.

This makes fullerene 60 a perfect treatment for asthma, respiratory problems, heart attacks, and cardiovascular disease.¹²

5 PREVENTS APOPTOSIS IN NEURONS & REVERSES ALZHEIMER'S DISEASE

Apoptosis is a fancy term for the death of cells, which is what buckyballs have been shown to protect against in nerve cells.¹³

It is a fact that neurons die and get created everyday in a healthy individual. However, in the case of Alzheimer's Disease and many other neurodegenerative disorders, too many neurons die which results in memory loss, cognitive decline and many other problems.

In one study, human neurons were cultured in vitro and then exposed to neuron-deadly excitotoxins. These cells were protected from apoptosis by buckminsterfullerene between 50-80%, with the 80% end of the range being for aspartame (NMDA).

This study also concluded that water-soluble C60 is not an excitotoxin and does not exhibit any toxicity to the brain or nervous system. It also makes carbon-60 look very promising as a treatment option for cognitive decline and neurodegenerative diseases.

There is more evidence to support this, revealing that C60 actively promotes the growth of new neurons. Several fullerene 60 derivatives were tested in vitro and proven to support neuronal growth.¹⁴ Not only will this help prevent neurodegeneration, but it will also help to make you smarter!

Furthermore, in the case of Alzheimer's Disease, it was shown that a specific C60 derivative destroys amyloid-beta plaques¹⁵, which means that it helps reverse the condition entirely.

6 PROTECTS CARTILAGE & IMPROVES BONE HEALTH

In one of the studies quoted above, buckyballs prevented bone damage and bone resorption when injected into the ankles of arthritic rats.

Further data indicates that carbon-60 does not just help to improve bone mineral density, but that it also protects cartilage. In rabbits that had been induced with osteoarthritis in their knees, water-soluble C60 prevented cartilage cells from aging prematurely or dying off, as well as increasing cartilage production and reducing enzymes that would destroy it.¹⁶

Fullerene 60 also proved to be superior to hyaluronic acid, which is the stuff that surrounds the cartilage in joints and is used as a common osteoarthritis treatment. Thus, Carbon-60 in its water-soluble form could potentially be one of the best treatments for both osteoarthritis and osteoporosis.

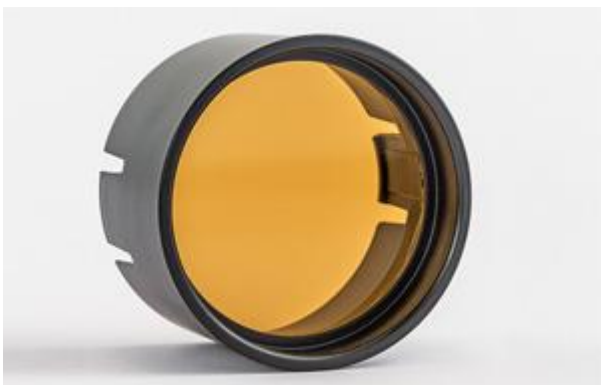
7 HELPS ERADICATE BACTERIA & VIRUSES, INCLUDING HIV

That's right – it was even shown that carbon-60 has the ability to inhibit HIV and prevent the onset of AIDS!¹⁷

Research also highlights that this wonder molecule has the ability to prevent the spread of human cytomegalovirus, hepatitis C, Semliki Forest Virus and Vesicular Stomatitis Virus.¹⁸

Specific types of fullerene 60 known as fullerenols were shown to inhibit the growth of Propionibacterium acnes, Staphylococcus epidermidis, Candida albicans, and Malassezia furfur, which are all commonly found to infect the skin.¹⁹

Dangerous water suspensions of C60 – not the same as water-soluble C60 – have been documented to act as strong anti-bacterials²⁰, but these compounds release free radicals and ought to be avoided. Other alkylated derivatives with short chains were also shown to destroy both bacteria and cancer cell lines²¹, but these are equally as toxic (see more below on side effects and types of synthetic Carbon-60).



8 PREVENTS YOU FROM GETTING FATTER

Don't get too excited yet – there is no research as of yet that even hints towards buckyballs as a weight loss supplement. However, there have been several exciting studies revealing that these prehistoric compounds will prevent you from gaining more weight than you currently have right now.

With both human and mouse cell cultures, it was shown that both fat-soluble²² and water-soluble²³ versions of carbon-60 prevented the cells from turning into fat cells.

9 INHIBITS TUMOR GROWTH

This is a truly remarkable discovery. It was revealed that water-soluble fullerene-60 prevents certain bone marrow stem cells and breast cancer cells from communicating. This communication tends to result in the cancer spreading rapidly (metastasis)²⁴.

11 MAY REVERSE SKIN DISORDERS

Fullerene-60 has been extensively tested for use in skincare applications, especially when the results were in about it's impressive anti-radiation benefits.

In rat models of dermatitis, it was shown that C60 reduced inflammation and promoted better skin barrier function, especially when administered topically (as opposed to being injected into the skin).

Impaired barrier function, as well as increased inflammation, are two of the main problems in dermatitis. When the barrier does not function properly, it allows pollutants and other toxins from the environment to infiltrate the skin, which causes a continuous cycle of inflammation. Carbon-60 helps put an end to this cycle.

For use in treating severe acne, it was shown that carbon-60 applied topically to skin decreased the number of skin lesions, pimples and oils found on the skin²⁹. It also helped significantly increase the moisture content of the skin after 8 weeks, suggesting it could be used beneficially in anti-dermatitis moisturizers.

Interestingly, it was proven that lower concentrations of C60 permeated more deeply into the skin, while larger concentrations tended to hang out on the surface.

Larger concentrations were also more effective at promoting better skin barrier function, but just on the surface of the skin. This suggests that lower concentrations are better for reducing inflammation in deeper levels of the skin, such as those with basal carcinomas.

In the case of certain types of skin disorders which result in hair loss or alopecia, carbon-60 can once again come to the rescue! It was proven that carbon-60 promoted rapid hair growth in bald mice.

12 HELPS PREVENT MALE INFERTILITY

Diabetes is a common cause for erectile dysfunction and male infertility. In diabetic male rats, fullerene C60 helped improve their fertility and genital function.³²

Increased levels of the antioxidant glutathione, testosterone, vitamin E, sperm and sperm motility were noted in these C60 treated rats (more than in the other diabetic rats or even healthy rats!).

Furthermore, they had recovered completely from diabetes-induced testicular complications, such as swelling, free radical damage and cell death in the testis.

