

## C 60 AND RADIATION

### Protecting yourself from the damaging effects of Radiation

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Rapidly increasing levels of radiation are an unavoidable part of today's modern environment. As a result, radiation related diseases are on the rise. Carbon 60 is the most powerful antioxidant yet known and it is an effective method you can use to protect yourself from radiation. C60 is safe and has no toxicity or negative side effects, unlike other radiation treatments. C60 also has many additional health benefits that can contribute to overall wellness.

### Sources and Types of Radiation

There are two main types of radiation, ionizing and non-ionizing radiation. Understanding the nature and sources of these forms of radiation can help protect you against their health-damaging effects.

### Emfs and 5g Radiation

EMFs or Electromagnetic Frequencies from electrical power lines, cell phones, cell towers, WiFi, Bluetooth, and other electrical devices is like a form of pollution that exposes us to radiation every day. This type of radiation is called non-ionizing. It damages cells by resonating with and selectively heating DNA, proteins and other complex molecules to break them down. This heat oxidizes the molecules and produces compounds which act as oxidative radicals. This radiation threat will increase as more and more 5G networks are introduced that emit even higher frequency EMFs.

### Nuclear Disasters

Ionizing radiation, like the radioactivity from nuclear disasters such as Fukushima and Chernobyl, takes centuries to go away. The clean-up from such a disaster is nearly impossible and more nuclear disasters are inevitable. Radioactive particles cause much more damage than EMFs. Uranium, Plutonium, Iodine 131, Cesium 137 & 134 and Strontium 90 are examples of common radioactive elements. The main danger of these radioactive elements is they can easily enter the food chain and become a part of your body. For example, radioactive elements from Fukushima have been found in fish off the coast of California. Other types of ionizing radiation are Gamma rays, X rays, and UV light.

### Protect yourself from Radiation with Carbon 60

Although ionizing and non-ionizing radiation is quite different, they damage the cells through a similar process. Both types of radiation produce oxidative radicals, which then causes a chain of oxidative molecular damage inside of cells. Over 20,000 scientific studies exist on the health-damaging effects of non-ionizing radiation (EMF).

Common negative health consequences from nonionizing Radiation include:

- Cancer
- DNA damage

- Cardiomyopathy
- Nose bleeds
- Fatigue
- Reproductive damage
- DNA failure
- Damaged sperm
- Cataracts
- Headaches
- Dementia
- Memory loss
- Flu-like symptoms
- Brain fog
- C60 neutralizes damaging effects of radiation

C60 as one of the most powerful antioxidants known can neutralize the oxidative radicals produced by radiation. One of the reasons C60 is such a powerful antioxidant, is it can neutralize oxidative radicals and then reset itself many times a second. Most antioxidants bind to oxidative radicals and cease to function. In some cases, they can be reactivated by complex body chemistry which takes energy and time.

A person taking C60 can easily have  $10^{17}$  (That is 100,000,000,000,000,000) molecules of C60 inside of them! This huge number of molecules ensures C60 goes everywhere and creates a high surface area to quickly neutralize oxidative radicals in the body.

## Summary

C60 is a highly effective preventive measure in dealing with radiation and other sources of oxidative damage. Damage from radiation is cumulative, especially that done to DNA. Low levels of radiation, over long periods of time, is the main threat to health. By preventing the oxidative damage radiation causes is the most effective strategy to protect your health. In scientific studies, C60 not only doubled the lifespan of test animals but completely prevented the occurrence of cancers and cognitive decline. Cancer and cognitive decline are diseases caused by cumulative exposure to radiation and other environmental toxins over long periods of time. You can also have this preventative protection by using C60. An ounce of prevention is worth more than a pound of cure.

## References

### 1.1 A carboxyfullerene sod mimetic improves cognition and extends the lifespan of mice.

Quick KL<sup>1</sup>, Ali SS, Arch R, Xiong C, Wozniak D, Dugan LL.

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#### Abstract

In lower organisms, such as *Caenorhabditis elegans* and *Drosophila*, many genes identified as key regulators of aging are involved in either detoxification of reactive oxygen species or the cellular

response to oxidatively-damaged macromolecules. Transgenic mice have been generated to study these genes in mammalian aging but have not in general exhibited the expected lifespan extension or beneficial behavioral effects, possibly reflecting compensatory changes during development. We administered a small-molecule synthetic enzyme superoxide dismutase (SOD) mimetic to wild-type

(i.e. non-transgenic, non-senescence accelerated) mice starting at middle age. Chronic treatment not only reduced age-associated oxidative stress and mitochondrial radical production, but significantly

extended lifespan. Treated mice also exhibited improved performance on the Morris water maze learning and memory task. This is to our knowledge the first demonstration that an administered antioxidant with mitochondrial activity and nervous system penetration not only increases lifespan but rescues age-related cognitive impairment in mammals. SOD mimetics with such characteristics may provide unique complements to genetic strategies to study the contribution of oxidative processes to nervous system aging.

Toxicol Appl Pharmacol. 2010 Feb 15;243(1):27-34. doi: 10.1016/j.taap.2009.11.009. Epub 2009 Nov 13.

## 1.2 The polyhydroxylated fullerene derivative C60(OH)24 protects mice from ionizing-radiation-induced immune and mitochondrial dysfunction.

Cai X1, Hao J, Zhang X, Yu B, Ren J, Luo C, Li Q, Huang Q, Shi X, Li W, Liu J.

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### Abstract

Although the protective effect of the polyhydroxylated fullerene derivative C(60)(OH)(n) against ionizing radiation is an area of much interest, the mechanisms relating to how polyhydroxylated fullerene derivatives improve mitochondrial dysfunction remain unknown. In order to find new and effective radioprotective agents, we synthesized a new polyhydroxylated fullerene molecule with 24 hydroxyl groups of known positions on C(60) and studied its protective effects in mice subjected to irradiation. Mice were pretreated with C(60)(OH)(24) for 2 weeks (daily, 40 mg/kg i. p.), then subjected to a lethal dose of whole body gamma-irradiation (from a(60)Co source). Survival was observed for 30 days after irradiation.

Immune and mitochondrial dysfunction and oxidative damage were analyzed in mice with the same C(60)(OH)(24) pretreatment and irradiation except that the animals were euthanized at day 5 after the irradiation. It was found that 2-week C(60)(OH)(24) pretreatment effectively reduced whole body irradiation-induced mortality without apparent toxicity. C(60)(OH)(24) pretreatment also showed significant protective effects against ionizing-radiation-induced decreases in immune and mitochondrial function and antioxidant defense in the liver and spleen.

These results suggest that the polyhydroxylated fullerene derivative C(60)(OH)(24) protects against ionizing-radiation-induced mortality, possibly by enhancing immune function, decreasing oxidative damage and improving mitochondrial function.

### Disclaimer:

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