

THE EFFECTS OF ANTIOXIDANT SUBSTANCES ON THE HUMAN BODY AND MODERN ANTIOXIDANTS

Irgashev Ibodillo Ergashevich

Faculty of Medicine, International University of Asia, Uzbekistan

Anesthesiologist-resuscitator.

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Abstract. Antioxidants play a critical role in maintaining human health by neutralizing free radicals and reducing oxidative stress. This paper explores the biological functions of antioxidants, their sources, and recent advancements in modern antioxidant therapy. It also discusses the potential benefits and risks associated with antioxidant supplementation.

Understanding the impact of antioxidants is essential for preventing chronic diseases and promoting longevity.

Keywords: Antioxidants, Free Radicals, Oxidative Stress, Nano-antioxidants, Chronic Diseases, Vitamin C, Vitamin E, Polyphenols, Neuroprotection, Supplementation, Functional Foods, Modern Antioxidants.

1. Introduction

Oxidative stress is one of the major contributors to cellular damage in the human body. It occurs when the production of reactive oxygen species (ROS) exceeds the body's ability to neutralize them with antioxidants. The imbalance between ROS and antioxidants can lead to chronic diseases such as cancer, cardiovascular disorders, neurodegenerative diseases, and premature aging (Pham-Huy et al., 2008). Antioxidants are substances that inhibit oxidation and neutralize free radicals, protecting cells and tissues from damage.

2. Classification and Sources of Antioxidants

Antioxidants can be classified into **endogenous** (produced by the body) and **exogenous** (obtained from external sources, such as food or supplements). They also fall into categories such as enzymatic (e.g., superoxide dismutase, catalase) and non-enzymatic (e.g., vitamins, polyphenols).

2.1 Natural Sources

- **Vitamin C:** Found in citrus fruits, strawberries, and bell peppers.
- **Vitamin E:** Found in nuts, seeds, and vegetable oils.
- **Carotenoids:** Present in carrots, sweet potatoes, and leafy greens.
- **Polyphenols:** Found in tea, coffee, red wine, and berries.

2.2 Synthetic Sources

Synthetic antioxidants like **butylated hydroxytoluene (BHT)** and **butylated hydroxyanisole (BHA)** are often used in the food industry to prevent spoilage. While effective, their safety in long-term human consumption remains under investigation.

3. Biological Functions of Antioxidants

Antioxidants play several important roles in the body:

- **Neutralizing Free Radicals:** Antioxidants donate electrons to free radicals, stabilizing them and preventing cellular damage (Lobo et al., 2010).
- **Reducing Inflammation:** By limiting oxidative stress, antioxidants help reduce chronic inflammation, a common factor in many diseases.
- **Supporting Immune Function:** Antioxidants enhance immune cell activity and protect against infections.

4. Modern Antioxidant Technologies

Recent advancements have led to the development of more efficient and targeted antioxidant systems:

4.1 Nano-Antioxidants

Nanotechnology allows for the delivery of antioxidants directly to targeted cells or tissues, enhancing their effectiveness and reducing side effects (Kaur et al., 2018).

4.2 Antioxidant Supplements

Capsules containing concentrated doses of vitamins and minerals are widely used.

However, excessive supplementation may lead to pro-oxidant effects, where antioxidants themselves become harmful (Halliwell, 2012).

4.3 Functional Foods

Foods enriched with additional antioxidants, such as fortified cereals or beverages, are gaining popularity for their potential health benefits.

5. Health Implications

Antioxidants are associated with various health benefits:

- **Cardiovascular Health:** They improve endothelial function, lower blood pressure, and reduce LDL oxidation.

- **Cancer Prevention:** Antioxidants help prevent DNA mutations; however, clinical evidence on supplementation remains inconclusive.

- **Neuroprotection:** Antioxidants like flavonoids may help delay the progression of diseases such as Alzheimer's and Parkinson's (Joseph et al., 2009).

- **Skin Health:** Topical and dietary antioxidants reduce the impact of UV radiation and aging on the skin.

6. Risks and Considerations

While antioxidants are beneficial, more is not always better. Some clinical trials have shown that excessive intake of antioxidant supplements (especially in smokers) may increase health risks (Bjelakovic et al., 2007). Thus, it is recommended to obtain antioxidants primarily from a balanced diet rather than relying solely on supplements.

7. Conclusion

Antioxidants are essential components in protecting the human body from oxidative stress and related diseases. Modern research has introduced innovative methods for delivering and enhancing antioxidant effects. However, the key to their effectiveness lies in moderation and balance. A diet rich in fruits, vegetables, and whole grains remains the safest and most effective strategy for ensuring optimal antioxidant intake.

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