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Name of Journal: *World Journal of Gastroenterology***Manuscript NO:** 63494**Manuscript Type:** REVIEW**Liver disease and COVID-19: The link with oxidative stress, antioxidants and nutrition**Ristic-Medic D *et al.* Antioxidants, liver and COVID-19

Danijela Ristic-Medic, Snjezana Petrovic, Aleksandra Arsic, Vesna Vucic

Abstract

Varying degrees of liver injuries have been reported in patients infected with the severe



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Oxidative stress is caused by an imbalance between the production of reactive oxygen (free radicals) and the body's ability (**antioxidant** capacity) to readily detoxify the reactive intermediates or easily repair the resulting damage. An adequate diet, characterized by daily intake of foods associated ...

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COVID-19 is an emerging, rapidly evolving situation. ... Although this discussion focuses on the role of **oxidative stress** in alcoholic **liver disease**, alcohol-induced **oxidative stress** also occurs in and damages other tissues (e.g., muscle, pancreas, and nerve cells). ... Conversely, the addition of **antioxidants** such as vitamin E, SOD, or GSH ...

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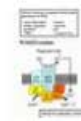
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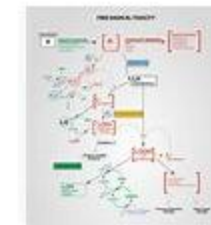
Sep 29, 2004 · Antioxidant Therapy to Reduce **Oxidative Stress**. Alcohol-induced **oxidative stress** in the **liver** cells plays a major role in the development of alcoholic **liver disease**. This condition results from several processes related to alcohol metabolism: Changes in the NAD/NADH ratio resulting from alcohol breakdown by ADH.

Nutritional status, diet and viral respiratory infections ...

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Potentially protective dietary components, such as **antioxidants**, are associated with maintaining body weight, reducing the incidence of metabolic **diseases**, reducing low-grade inflammation biomarkers, such as serum C-reactive protein and adipokines and attenuating systemic **oxidative stress** and specific organs in obesity . As we describe in the following topics, the consumption of specific micronutrients ...

Oxidative stress



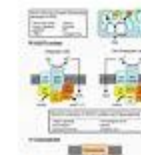
Oxidative stress reflects an imbalance between the systemic manifestation of reactive oxygen species and a biological system's ability to readily detoxify the reactive intermediates or to repair the resulting damage. Disturbances in the normal redox state of cells can cause toxic effects through the production

of peroxides and free radicals that damage all components of the cell, including proteins, lipids, and DNA. Oxidative stress from oxidative metabolism causes base damage, as well as strand breaks in DNA. Base damage is mostly indirect and caused by the reactive oxygen species generated, e.g., O_2^- , OH and H_2O_2 . Further, some reactive oxidative species act as cellular messengers in redox signaling. Thus, oxidative stress can cause disruptions in normal mechanisms of cellular signaling.

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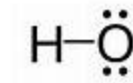
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