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Current understanding of the metabolism of micronutrients in chronic alcoholic liver disease

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Abstract

Alcoholic liver disease (ALD) remains an important health problem worldwide. Perturbation of micronutrients has been broadly reported to be a common characteristic of patients with ALD, given the fact that micronutrients often act as composition or coenzymes of many biochemical enzymes responsible for the inflammatory response, oxidative stress, and cell proliferation. Mapping the metabolic pattern and the function of these micronutrients is a prerequisite before

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metabolic derangements that cumulatively increase one's risk for developing protein-calorie malnutrition (PCM) and **micronutrient** alterations. In fact, the degree of malnutrition is thought to correlate with **disease** severity and complications.¹⁻³ **Understanding** the physiologic changes associated with different forms of **liver disease** can help

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In addition to **metabolic derangements** caused by liver disease, **heavy alcohol intake** exacerbates the risk of **micronutrient deficiency** by replacing nutrient-dense foods in the diet, generating reactive oxygen species that can deplete antioxidant stores, decreasing intestinal absorption of certain nutrients, and increasing nutrient excretion in the urine. ³ The following **micronutrient deficiencies** are common in alcoholic liver disease (**ALD**...

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Jun 11, 2013 · Vitamin D. Vitamin D undergoes hepatic 25-hydroxylation, rendering the **liver** critical to the **metabolic** activation of this vitamin. **Chronic liver disease** commonly results in vitamin D deficiency. 25–28 In particular, a large proportion of patients with **alcoholic liver disease** have compromised vitamin D status. 29 Vitamin D deficiency has also been linked to poor outcomes in patients with ...



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Micronutrient Antioxidants and Nonalcoholic Fatty Liver ...

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Nonalcoholic fatty liver **disease** (NAFLD) is one of the most important **chronic liver** diseases worldwide and has garnered increasing attention in recent decades. NAFLD is characterized by a wide range of **liver** changes, from simple steatosis to nonalcoholic steatohepatitis, cirrhosis, and ...

Cited by: 21 Author: Guanliang Chen, Yinhua Ni, Naoto Nagat... Publish Year: 2016

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