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Lipidomics in non-alcoholic fatty liver disease

Kartsoli S *et al.* Lipidomics in NAFLD

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Abstract

Non-alcoholic fatty liver disease (NAFLD), the most common chronic liver disorder in western countries, comprises steatosis to nonalcoholic steatohepatitis (NASH), with the latter having the potential to progress to cirrhosis. The transition from isolated steatosis to NASH is still poorly understood, but lipidomics approach revealed that the hepatic lipidome is extensively altered in the setting of steatosis and steatohepatitis and these

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Non-alcoholic fatty liver disease (NAFLD) is the most common form of chronic liver disease worldwide and includes a spectrum of histological features ranging from **simple steatosis**, characterized by fat accumulation in the liver, to **non-alcoholic steatohepatitis (NASH)**, associated with **ballooning of hepatocytes, inflammation and/or fibrosis**, finally driving to **liver cirrhosis and hepatocellular carcinoma**.

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Nonalcoholic fatty liver disease - Symptoms and causes ...

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**Overview**

Symptoms

Causes

Risk Factors

Complications



Nonalcoholic fatty liver disease (NAFLD) is an umbrella term for a range of liver conditions affecting people who drink little to no alcohol. As the name implies, the main characteristic of NAFLD is too much fat stored in liver cells. NAFLD is increasingly common around the world, especially in Western nations. In the United States, it is the most common form of chronic liver disease, affecting about one-quarter of the population. Some individuals with NAFLD can develop nonalcoholic steatohepat...

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Lipidomics in non-alcoholic fatty liver disease



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Non-alcoholic fatty liver disease (NAFLD) is a major clinical concern and its treatment consumes abundant resources. While accumulation of **lipids** in hepatocytes initiates the **disease**, this in itself is not necessarily harmful; rather, initiation of inflammation and subsequent fibrosis and **cirrhosis** are critical steps in NAFLD pathology.

Non-Alcoholic Fatty Liver Disease: Insights from ...

www.ncbi.nlm.nih.gov/pmc/articles/PMC6175671/

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Non-alcoholic fatty liver disease (NAFLD) is the most common form of chronic liver disease worldwide and includes a spectrum of histological features ranging from **simple steatosis**, characterized by fat accumulation in the liver, to **non-alcoholic steatohepatitis (NASH)**, associated with **ballooning of hepatocytes**, **inflammation** and/or **fibrosis**, finally driving to **liver cirrhosis** and **hepatocellular carcinoma**.

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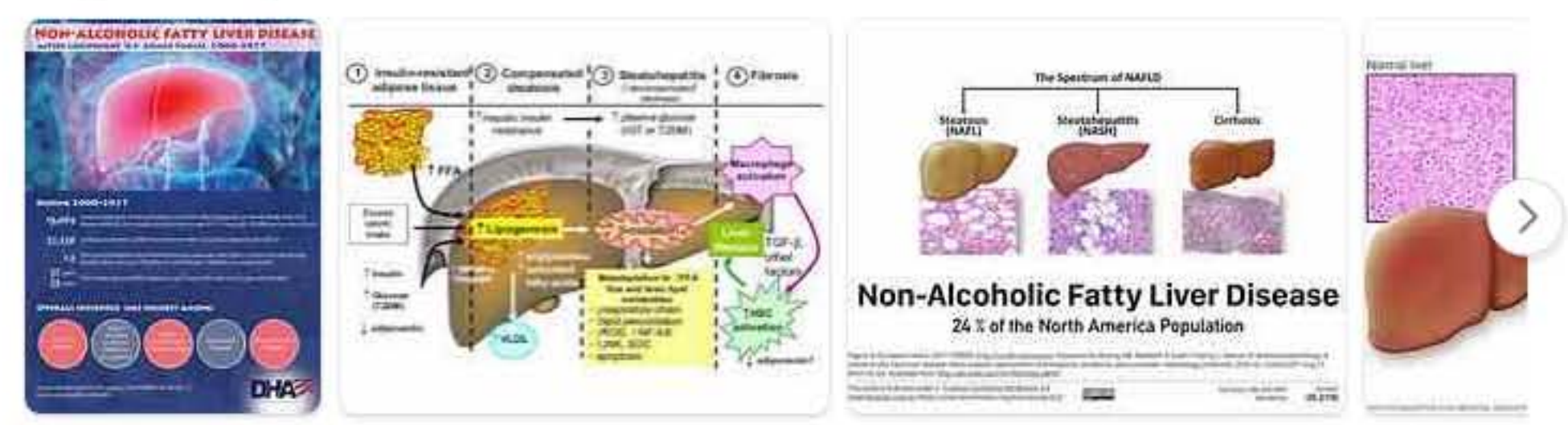
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Non-alcoholic fatty liver disease (NAFLD) is a highly prevalent form of **chronic liver disease** worldwide. • 3–5% of NAFLD patients develop **non-alcoholic steatohepatitis (NASH)** and have higher risk of hepatocellular carcinoma. • **Lipid accumulation** generates toxic effects leading to hepatocellular damage and inflammation i.e. **lipotoxicity**.

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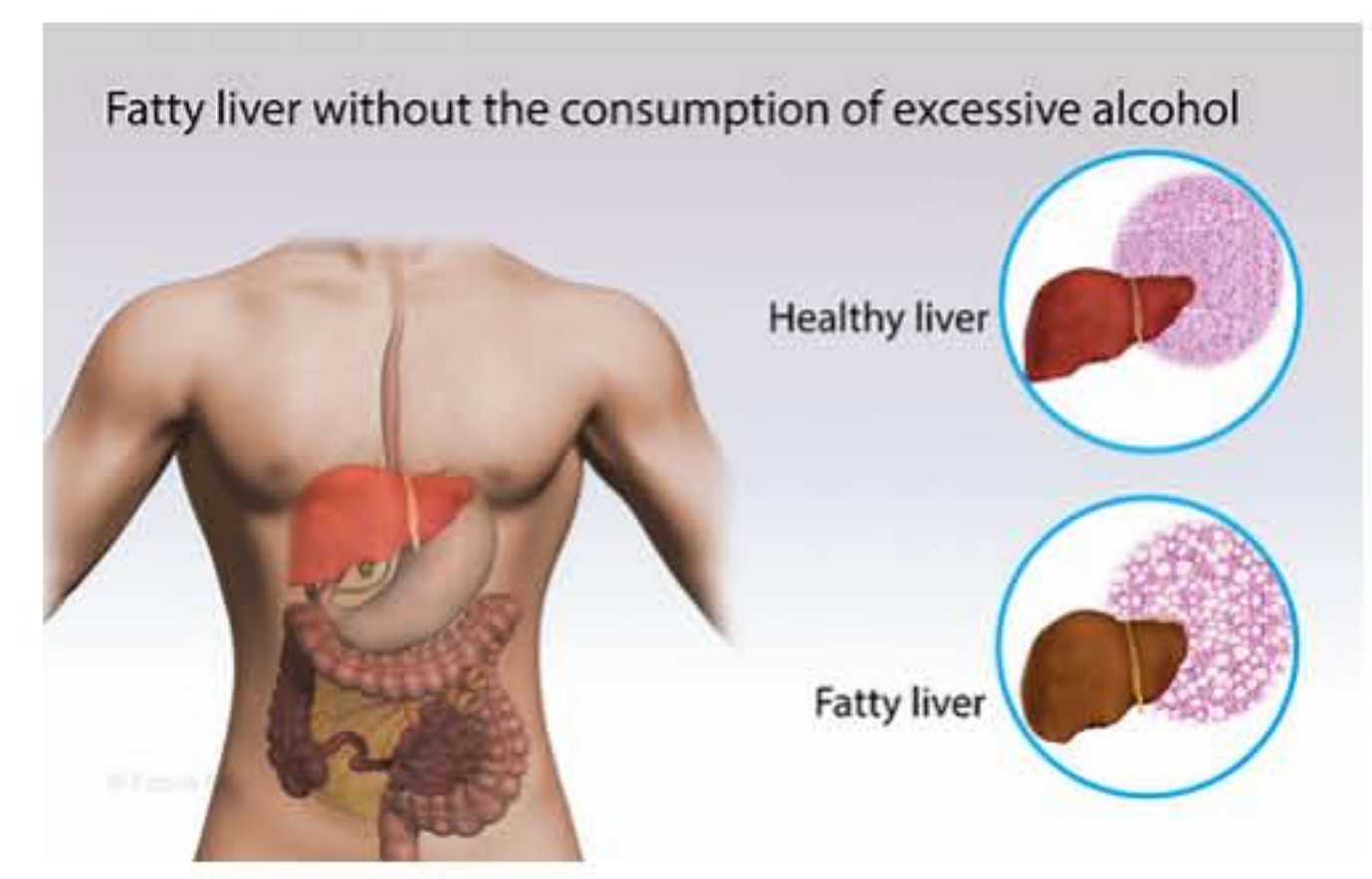
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Apr 17, 2018 · **Hepatocellular lipid accumulation** characterizes **nonalcoholic fatty liver disease (NAFLD)**. However, the types of **lipids** associated with **disease progression** are debated, as is the impact of their **localization**.

Cited by: 13 **Author:** Klára Ščupáková, Klára Ščupáková, Zita ...
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Non-Alcoholic Fatty Liver Disease

Medical Condition



A condition in which fat accumulates in the liver in people who drink little or no alcohol.

- Very common (More than 3 million cases per year in US)
- Requires lab test or imaging
- Treatments can help manage condition, no known cure
- Can last several years or be lifelong

The cause of non-alcoholic fatty liver disease is not clearly understood. It is associated with obesity, insulin resistance, hyperglycemia, and high levels of fat in blood. The condition does not usually cause symptoms. In some cases, fatigue, enlarged liver, and pain in the upper right abdomen is seen. Non-alcoholic fatty liver disease has no specific treatment. It involves treating underlying conditions such as obesity.