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Manuscript NO: 62037

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Basic Study

Partially hydrolyzed guar gum attenuates non-alcoholic fatty liver disease in mice through the gut-liver axis

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Partially Hydrolyzed Guar Gum (PHGG) Attenuates Nonalcoholic Steatohepatitis (NASH) in Mice Through the Gut-Liver Axis C57BL/6J mice were fed for 8 weeks on CRF-1 (control) or NASH-inducing atherogenic (high in fat and cholesterol) diet with or without 5% PHGG (Sunfiber) Atherogenic diet induced fat accumulation in liver with

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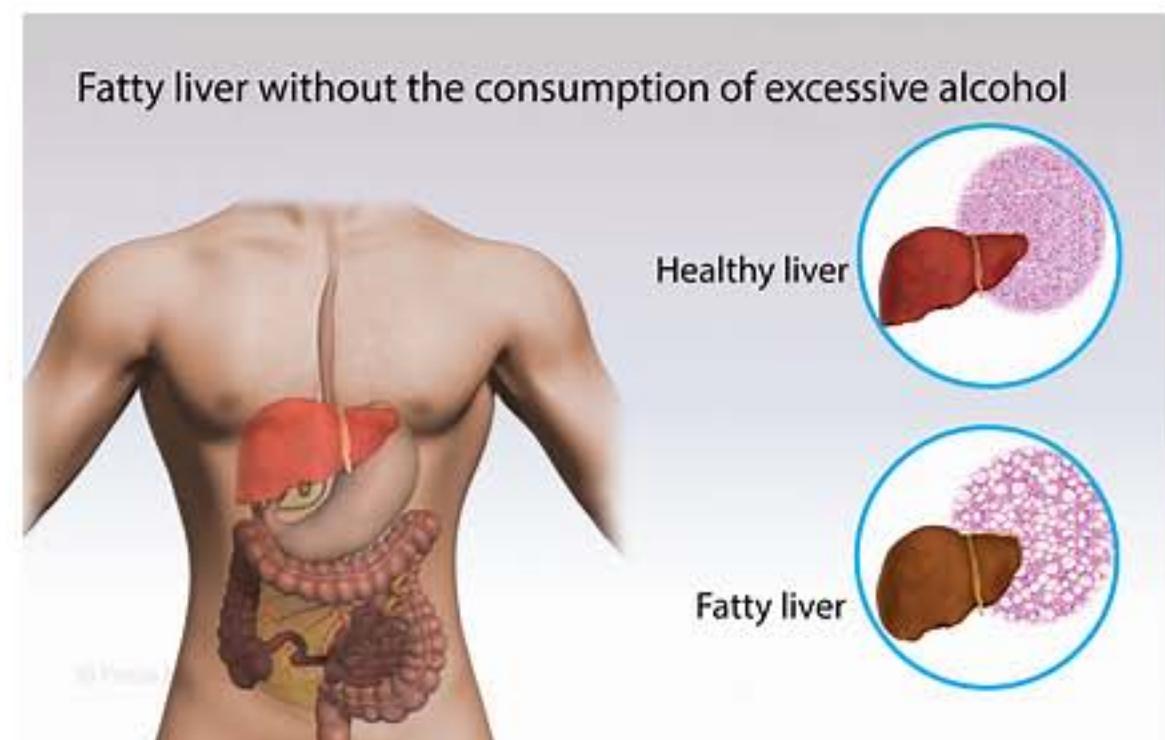
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Non-Alcoholic Fatty Liver Disease

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

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Jun 11, 2020 · We have reported that **partially hydrolyzed guar gum** (PHGG), a water-soluble dietary fiber produced by **guar gum** beans, improved murine experimental colitis and reduced blood glucose in a **mouse** diabetic model. Recently, "**gut-liver axis**", in which hepatic inflammation is closely associated with intestinal inflammation, is widely accepted.

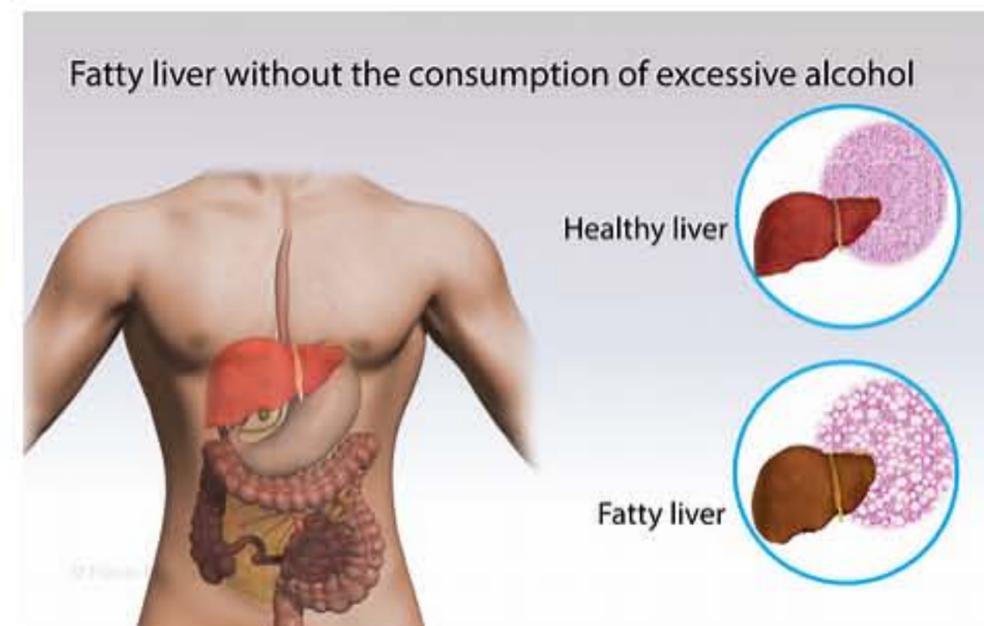
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Non-Alcoholic Fatty Liver Disease

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.

Symptoms

Usually asymptomatic. Symptoms may include:

- Fatigue
- Enlarged liver
- Pain the upper right abdomen