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27 Aug 2013 ... Impaired glucose tolerance in rats fed low-carbohydrate, high-fat diets, ... control diet, a high-protein "Atkins-style" LC-HF diet, or a low-protein, ketogenic, LC-HF diet. Both LC-HF diets induced lower fasting glucose and insulin levels ... rats exhibited impaired glucose tolerance and impaired hepatic and ...

[Implications of Diet on Nonalcoholic Fatty Liver Disease](#)

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Weight loss with either low fat or low carbohydrate diets can improve IHTG, ... high fat/high protein or hypercaloric high fat diets to an isocaloric control diet in 10 ... Animal models suggest that fructose induces activity of peroxisome ... Apoptosis and Liver Regeneration After Partial Hepatectomy in Rats With Fatty Liver.

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22 Oct 2014 ... Similarly, low-protein/high-carbohydrate diets are linked to health and ... Restriction of methionine extends lifespan in a variety of rat strains ... In addition, restriction of dietary tryptophan protects mice from renal and hepatic ... For example, arachidonic acids, which are omega (ω)-6 PUFAs, induce apoptosis ...

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[cancerres.aacrjournals.org/content/71/12/4494.full](http://cancerres.aacrjournals.org/content/71/12/4494.full)

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 24343

Manuscript Type: ORIGINAL ARTICLE

*Basic Study*

**Apoptosis induced by a low-carbohydrate and high-protein diet in rat livers**

Maria Emília L Monteiro, Analucia R Xavier, Felipe L Oliveira, Porphirio JS Filho, Vilma B Azeredo

#### **Abstract**

**AIM:** To determine whether high-protein, high-fat, and low-carbohydrate diets can cause lesions in rat livers.

**METHODS:** We randomly divided 20 female Wistar rats into a control diet

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22 Oct 2014 ... Similarly, **low-protein/high-carbohydrate diets** are linked to health and ...  
 Restriction of methionine extends lifespan in a variety of **rat** strains with .... For example,  
 arachidonic acids, which are omega (ω)-6 PUFAs, **induce apoptosis** of ..... blocks **high-fat diet-**  
**induced** obesity, **fatty liver** and insulin resistance.

[Dietary Fat and Carbohydrate Composition: Metabolic Disease - Fat ...](#)  
[www.ncbi.nlm.nih.gov/books/NBK53531/](http://www.ncbi.nlm.nih.gov/books/NBK53531/)

While weight loss was again somewhat larger with the **high-** vs **low-fat diet**, and blood ... in C-  
 reactive **protein** (CRP) compared to a reduction of 43% in the **low fat** , ... Most work in rodents  
 show that **diets high** in **dietary n - 6 fatty acids induce** ..... there are also ceramide effects on  
 cell **apoptosis**, and on lipid uptake as well, ...

[PDF] [High Fatty Diet Effects on Rat Liver - ejgm](#)  
[www.ejgm.org/upload/sayi/28/EJGM-01311.pdf](http://www.ejgm.org/upload/sayi/28/EJGM-01311.pdf)

Key words: Obesity, **rat**, **liver**, **high carbohydrate diet**, **high fatty diet** ... sek karbonhidratlı  
 standart diyet; %69 karbonhidrat, %20 **protein** ve %11 ... cholesterol, **high** density lipoprotein  
 (HDL), **low** density ... **induce** obesity because of including **high-calorie**, unlike ..... acids  
 combined, the **apoptosis** rate and impaired insulin,

[Oxidative Phosphorylation Flexibility in the Liver of Mice Resistant to ...](#)  
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Chapter 21 Dietary Fat and Carbohydrate Composition: Metabolic Disease ... point)

while the effect of the low carbohydrate, high-protein, and high-fat diet (Atkins) ...

While weight loss was again somewhat larger with the high- vs low-fat diet, ..... shown a protective effect by increasing apoptosis colon cancer model in rats (Le ...

## [PDF] High Fatty Diet Effects on Rat Liver - ejgm

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Key words: Obesity, rat, liver, high carbohydrate diet, high fatty diet ... sek

karbonhidratlı standart diyet; %69 karbonhidrat, %20 protein ve %11 ... cholesterol,

high density lipoprotein (HDL), low density ..... fat diet induced hyperglycemia and insulin resistance, .... acids combined, the apoptosis rate and impaired insulin.

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on cisplatin-induced oxidative stress, apoptosis and nephrotoxicity in rats.