

عنوان مقاله:

Effect of Corn Oil, Olive Oil and Sheep's and Cow's Ghee on the Expression of apoB Protein in Syrian Mice's Intestine and Liver

محل انتشار:

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خلاصه مقاله:

Background and Aims: Type and saturation of fatty acids can have an important impact on the level of triglyceride, cholesterol, very low and low-density lipoproteins in the blood and thus affect the development of atherosclerosis. Saturated fatty acids have an additive effect on blood cholesterol while for unsaturated fatty acids, a lowering effect has been reported. Fatty acids can have different effects on lipoproteins metabolism and apolipoproteins expression because oils used by human have different compositions. One of the important apolipoprotein is apolipoproteinB (apoB). This study was conducted to compare the effect of different nutritious fats on expression of apoB protein. **Materials and Methods:** For this purpose, 48 Syrian male mice were selected and randomly divided into six groups of eight: chow, diet with 10% corn oil, diet with 10% olive oil, diet with 10% cow ghee, diet with 10% sheep ghee, and diet with 2% cholesterol. After two months, liver and intestine were removed and transferred into liquid nitrogen and were frozen at -70°C. Protein was extracted and the expression of apoB was studied by western blotting. **Results:** An increase in the expression of intestinal apoB48 was identified in olive oil and cow ghee groups. Hepatic apoB100 expression increased in the cholesterol group compared with the corn oil group. **Conclusions:** This study indicates that olive oil and cow ghee consumption increase intestinal apoB48 expression.

کلمات کلیدی:

ApoB, Cholesterol, Corn oil, Cow ghee, Olive oil, Sheep ghee, روغن گیاهی، روغن جانوری، کلسترول

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