

The effects of dietary food fortified with vitamin B4 on lipid profiles in serum and liver tissue / Yohanes Buang

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Abstrak

The effects of dietary food fortified with vitamin B4 on lipid profiles in serum and liver tissue were studied. Rats were paired-fed a 0.25% vitamin B4 diet or a diet without vitamin B4 for 10 days. Serum lipid levels were measured using enzyme assay kits. Lipids of liver tissues were extracted and the lipid contents were determined. A piece of liver was prepared to determine the activities of fatty acid synthase (FAS) and fatty acid β -oxidation. The results showed that animals fed a food fortified with vitamin B4 had higher level of serum TG, PL, total cholesterol, and high density lipoprotein. Their increases were approximately by 74%, 20%, 27%, and 27%, respectively. The significant changes in liver lipid were only found in PL component. This treatment promoted FAS activity, but impaired the fatty acid β -oxidation. In conclusion: Dietary food fortified with vitamin B4 induces hypertriglyceridemia and liver PL level.