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PCSK9 and carbohydrate metabolism: A double-edged sword

Theodosios D Filippatos, Sebastian Filippas-Ntekouan, Eleni Pappa, Thalia Panagiotopoulou, Vasilios Tsimihodimos, Moses S Elisaf

Abstract

Proprotein convertase subtilisin/kexin type 9 (PCSK9) plays a paramount role in the degradation of low-density lipoprotein (LDL) receptors (LDLR) on the hepatic cells surface and subsequently affects LDL particles catabolism and LDL cholesterol (LDL-c) levels. The anti-PCSK9 monoclonal antibodies lead to substantial decrease of LDL-c concentration. PCSK9 (which is also expressed in pancreatic delta-cells) can decrease LDLR and subsequently decrease

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Figure 1. Glucokinase and its Regulatory Protein in Relation to Beta Cell Function and Liver Metabolism.

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