



Renal Lipid Metabolism and Lipotoxicity in Diabetes

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The pathogenesis of **diabetic kidney disease** is a complex process caused by both glucotoxicity and lipotoxicity due to **lipid** accumulation. In cases of **diabetic** animals, **lipid** deposition is found in both tubular and glomerular portions of the kidneys, which are the major sites of **diabetic** nephropathy lesions.

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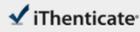
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<https://diabetes.diabetesjournals.org/content/54/8/2328>

Aug 01, 2005 - Since the description by Kimmelstiel and Wilson of nodular glomerulosclerosis and presence of **lipid** deposits in the **diabetic kidney**, several investigators have shown the presence of **lipid**...

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New insights into renal lipid dysmetabolism in diabetic kidney disease

Mitrofanova A *et al.* Lipids in DKD

Alla Mitrofanova, George Burke, Sandra Merscher, Alessia Fornoni

Abstract

Lipid dysmetabolism is one of the main features of diabetes mellitus and manifests by dyslipidemia as well as the ectopic accumulation of lipids in various tissues and organs, including the kidney. Research suggests that impaired cholesterol metabolism, increased lipid uptake or synthesis, increased fatty acid oxidation, lipid droplet accumulation and an imbalance in biologically active sphingolipids (such as ceramide, ceramide-1-phosphate and sphingosine-1-phosphate) contribute to the development of diabetic kidney disease. Currently, the literature suggests that both quality and quantity

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Author: Laongdao Thongnak, Anchalee Pongchaidecha, Anusorn Lungkaphin

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