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Name of Journal: *World Journal of Diabetes***Manuscript NO:** 65180**Manuscript Type:** REVIEW

Genetics of macrovascular complications in type 2 diabetes

Tonyan ZN *et al.* Genetics of T2D macrovascular complications

Abstract

Type 2 diabetes mellitus (T2DM) is a metabolic disorder that currently affects more than 400 million worldwide and is projected to cause 552 million cases by the year 2030^[1]. Long-term vascular complications, such as coronary artery disease, myocardial infarction, stroke, are the leading causes of morbidity and mortality among diabetic patients^[2]. The recent advances in genome-wide technologies have given a powerful impetus to the study of risk markers for multifactorial diseases. To date, the role of genetic and epigenetic factors in modulating susceptibility to T2DM and its vascular

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Mar 01, 2006 · Part of the cardiovascular risk associated with diabetes is probably due to genetic determinants influencing both glucose homeostasis and the development of atherosclerosis. However, type 2 diabetes frequently coexists with other cardiovascular risk factors such as **arterial hypertension**, central obesity, and dyslipidemia.

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Author: Frédéric Fumeron, André F. Reis, Gilbert...

Publish Year: 2006

Genetics of macrovascular complications in diabetes ...

https://www.researchgate.net/publication/7235446_Genetics_of_macrovascular...

Subjects with the G/G genotype at position 45 or the G/G genotype at position 276 had a significantly increased risk of **type 2 diabetes** (odds ratio 1.70 [95% CI 1.09-2.65] and 2.16 [1.22-3.95 ...

PEOPLE ALSO ASK

What are the macrovascular complications of type 2 diabetes? ▾

What are the complications of diabetes? ▾

Is there a connection between T2DM and vascular disease? ▾

What is the pathological mechanism of diabetes? ▾

Feedback

Macrovascular Complications of Type 2 Diabetes Mellitus

<https://pubmed.ncbi.nlm.nih.gov/30961498>

Macrovascular Complications of Type 2 Diabetes Mellitus. T2DM causes a variety of macrovascular complications through different pathogenetic pathways that include **hyperglycaemia** and **insulin resistance**. The association between T2DM and cardiovascular disease is clear, but we need more clinical studies in order to identify the pure effect of T2DM. T2DM causes a variety of macrovascular complications through different pathogenetic pathways that include **hyperglycaemia** ...

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Part of the **cardiovascular risk** associated with diabetes is probably due to genetic determinants influencing both glucose homeostasis and the development of atherosclerosis. However, type 2 diabetes frequently coexists with other **cardiovascular risk** factors such as arterial hypertension, central obesity, and dyslipidemia.

Cited by: 13

Author: Fréd éric Fumeron, André F. Reis, Gilberto V...

Publish Year: 2006

Genetics of diabetes mellitus and diabetes complications

<https://pubmed.ncbi.nlm.nih.gov/32398868>

Devastating **macrovascular complications** (cardiovascular disease) and microvascular **complications** (such as diabetic kidney disease, diabetic retinopathy and neuropathy) lead to increased mortality, blindness, kidney failure and an overall decreased quality of life in individuals with **diabetes**.

Cited by: 32

Author: Joanne B Cole, Jose C Florez, Jose C Florez

Publish Year: 2020

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Macrovascular Complications of Type 2 Diabetes Mellitus T2DM causes a variety of macrovascular complications through different pathogenetic pathways that include **hyperglycaemia and insulin resistance**. The association between T2DM and cardiovascular disease is clear, but we need more clinical studies in order to identify the pure effect of T2DM.

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Macrovascular Complications of Type 2 Diabetes Mellitus

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PEOPLE ALSO ASK

How are macrovascular and microvascular complications of diabetes related? ▾

Is there genetic overlap between diabetes and microvascular diabetes? ▾

Are there genetic associations with Type 2 diabetes? ▾

Are there genetic determinants of diabetes complications? ▾

Feedback

Genetics of macrovascular complications in diabetes ...

<https://link.springer.com/article/10.1007/s11892-006-0028-5> ▾

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