

SLC16A11 linked to type 2 diabetes in american indians

November 4 2015



(HealthDay)—*SLC16A11* A allele is modestly associated with type 2 diabetes in North American Indians, according to a study published online Oct. 20 in *Diabetes*.

Noting that genetic variants in *SLC16A11* have been associated with type 2 [diabetes](#) in Mexican and other Latin American populations, Michael Traurig, from the National Institutes of Health in Phoenix, and colleagues analyzed *SLC16A11* in 12,811 North American Indians.

The researchers found that the diabetes risk haplotype, tagged by the rs75493593 A allele, correlated with type 2 diabetes (odds ratio, 1.11; $P = 0.001$). A strong interaction was seen with [body mass index](#) (BMI), such that the correlation with diabetes was stronger in leaner individuals. In individuals with type 2 diabetes, rs75493593 correlated strongly with

BMI, but not among those without diabetes. Longitudinal analyses indicated that this was partially due to a correlation of the A allele with greater weight loss associated with diabetes onset.

"Analyses of global gene expression data from adipose, skeletal muscle, and whole blood provide evidence that rs75493593 is associated with expression of the nearby *RNASEK* gene, suggesting that *RNASEK* expression may mediate the effect of genotype on diabetes," the authors write.

More information: [Abstract](#)
[Full Text \(subscription or payment may be required\)](#)

Copyright © 2015 [HealthDay](#). All rights reserved.

Citation: SLC16A11 linked to type 2 diabetes in american indians (2015, November 4) retrieved 27 January 2024 from <https://medicalxpress.com/news/2015-11-slc16a11-linked-diabetes-american-indians.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.