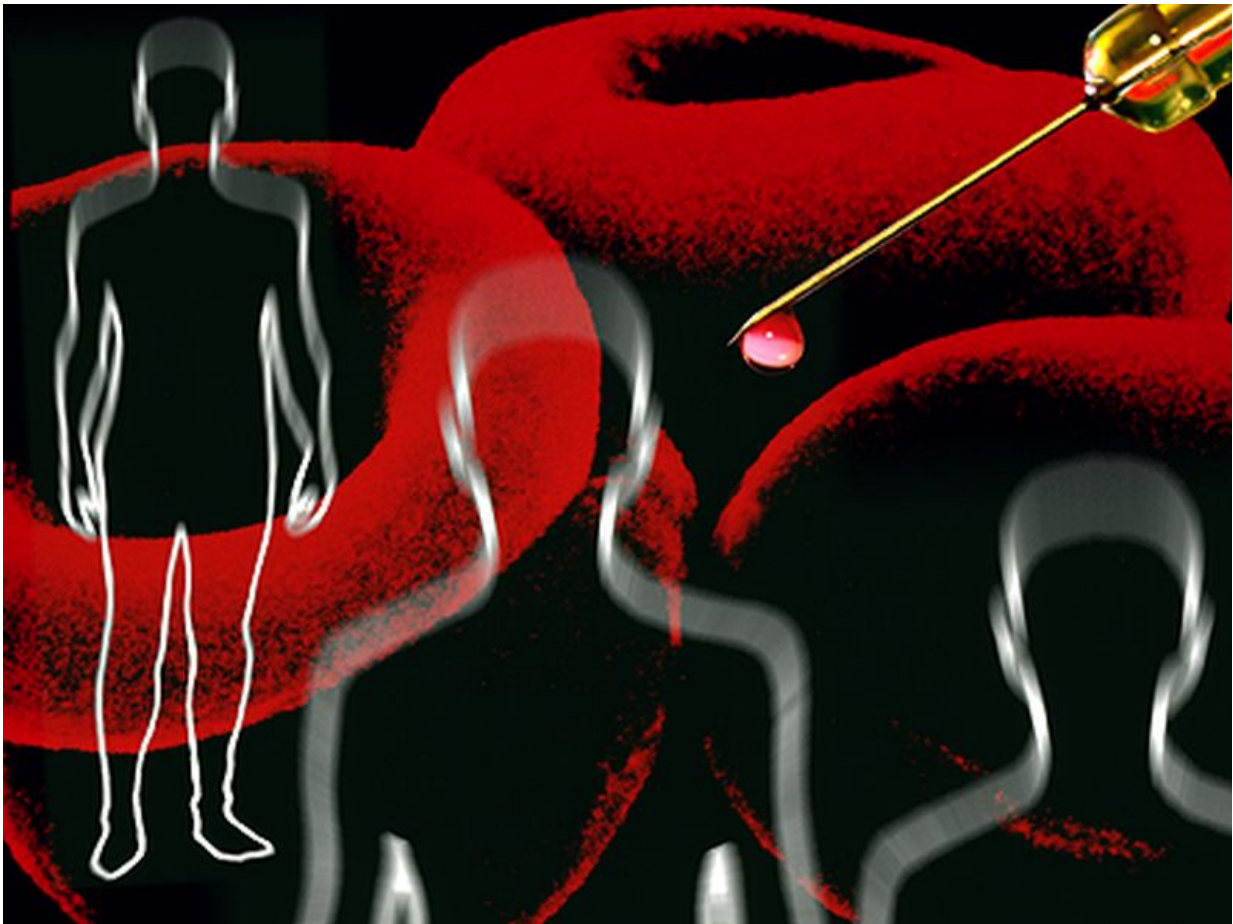


Ferritin, transferrin positively linked to type 2 diabetes

February 18 2016



(HealthDay)—Higher levels of ferritin and transferrin correlate with

increased risk of type 2 diabetes (T2D) among men and women, according to a study published online Feb. 9 in *Diabetes Care*.

Clara Podmore, Ph.D., from the University of Cambridge School of Clinical Medicine in the United Kingdom, and colleagues examined the prospective association of ferritin, transferrin saturation (TSAT), serum [iron](#), and transferrin with incident T2D in 11,052 cases and 15,182 controls. The authors further assessed whether the correlations differed by subgroups in the population.

The researchers found that after adjustment for age, center, [body mass index](#), physical activity, smoking status, education, high-sensitivity C-reactive protein, alanine aminotransferase, and γ -glutamyl transferase, [higher levels](#) of ferritin and transferrin correlated with increased T2D risk (hazard ratios in men and women, respectively: 1.07 and 1.12 per 100 $\mu\text{g/L}$ higher ferritin level; 1.11 and 1.22 per 0.5 g/L higher transferrin level). In women, but not men, elevated TSAT correlated with a lower risk of T2D (hazard ratio, 0.68). There was no correlation for serum iron with T2D. Among leaner individuals, the correlation of ferritin with T2D was stronger ($P_{\text{interaction}}$

"The pattern of association of TSAT and transferrin with T2D suggests that the underlying relationship between iron stores and T2D is more complex than the simple link suggested by the association of ferritin with T2D," the authors write.

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

Copyright © 2016 [HealthDay](#). All rights reserved.

Citation: Ferritin, transferrin positively linked to type 2 diabetes (2016, February 18) retrieved

18 April 2024 from

<https://medicalxpress.com/news/2016-02-ferritin-transferrin-positively-linked-diabetes.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.