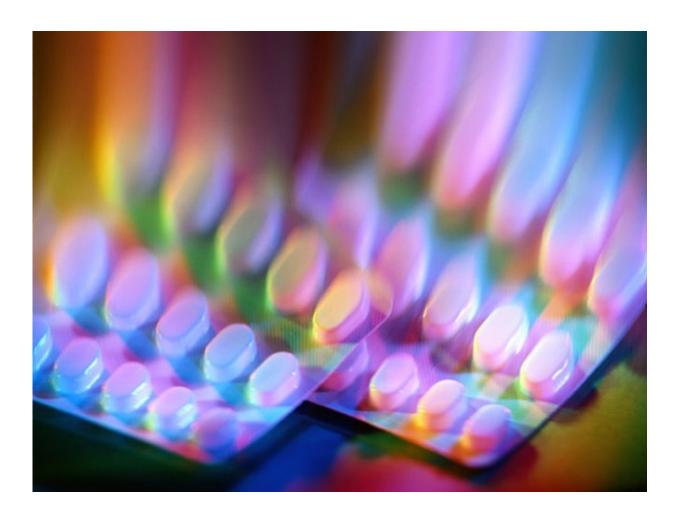


Serum biomarker that reflects use, dose of metformin identified

December 21 2016



(HealthDay)—The growth differentiation factor 15 (GDF15) is a novel



biomarker for the use and dosing of metformin, according to a study published online Dec. 14 in *Diabetes Care*.

Hertzel C. Gerstein, M.D., from McMaster University in Hamilton, Canada, and colleagues assessed 237 serum biomarkers from participants in the Outcome Reduction with Initial Glargine Intervention trial to identify markers associated with metformin dosing or use. Of the 8,401 <u>study participants</u>, 2,317 were taking metformin.

The researchers found that GDF15 was strongly linked to metformin. For every one standard deviation increase in GDF15 level, the odds of metformin use varied from 3.73 to 3.94, depending on other variables included in the analysis. The odds ranged from 0.71 to 1.24 for the remaining 25 linked biomarkers. A 1.64 ng/mL higher GDF15 level predicted a 188-mg higher metformin dose (P

"GDF15 levels are a biomarker for the use of metformin in people with dysglycemia, and its concentration reflects the dose of <u>metformin</u>," the authors write.

Several authors disclosed financial ties to pharmaceutical companies, including Sanofi, which funded the study.

More information: <u>Full Text (subscription or payment may be</u> <u>required)</u>

Copyright © 2016 HealthDay. All rights reserved.

Citation: Serum biomarker that reflects use, dose of metformin identified (2016, December 21) retrieved 11 May 2024 from <u>https://medicalxpress.com/news/2016-12-serum-biomarker-dose-metformin.html</u>



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.