

Fasting blood glucose trajectory may predict future MI

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(HealthDay)—For individuals without diabetes, certain fasting blood

glucose (FBG) trajectories are associated with the risk of future myocardial infarction (MI), according to a study published online Sept. 8 in *Diabetes Care*.

Cheng Jin, from the Kailuan General Hospital in Tangshan, China, and colleagues conducted a [prospective cohort study](#) involving 68,297 participants without [diabetes](#) free of MI, stroke, and cancer prior to or in 2010. The authors measured FBG concentrations in 2006, 2008, and 2010, and the trajectories were identified by latent mixture modeling.

Based on FBG range and changing pattern over time, the researchers identified five discrete FBG trajectories: elevated-stable, elevated-decreasing, moderate-increasing, moderate-stable, and low-stable. A total of 283 incident MI cases were documented during four years of follow-up. Compared with the moderate-stable pattern, the adjusted hazard ratios were 1.53 and 0.61 for elevated-stable and elevated-decreasing patterns, respectively, after adjustment for potential confounding variables. During 2006 to 2010, cumulative average and increasing rate of FBG, but not a single baseline FBG, predicted future MI risk.

"These observations suggest that long-term trajectories of FBG may be important for risk prediction of MI and possibly other macrovascular diseases," the authors write.

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

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