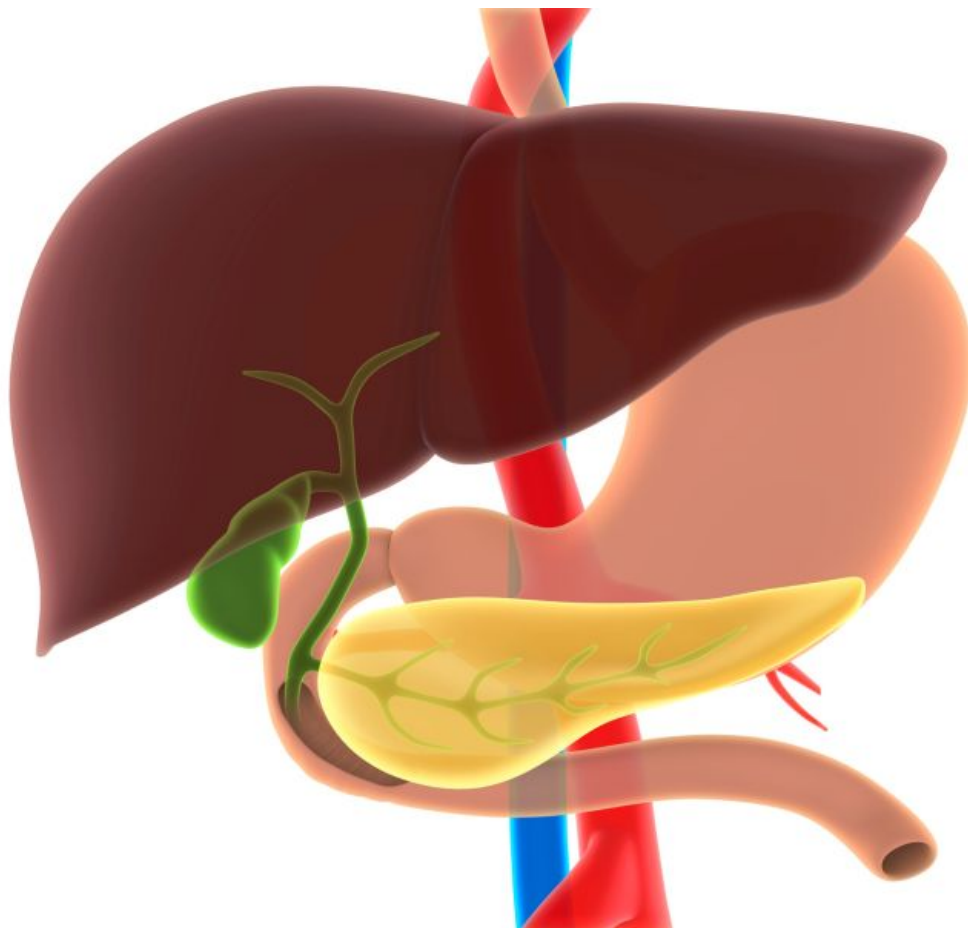


# Serum trypsinogen levels down in type 1 diabetes

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(HealthDay)—Patients with type 1 diabetes have significantly lower

serum trypsinogen levels than those without type 1 diabetes, according to a study published online Jan. 23 in *Diabetes Care*.

Xia Li, M.D., from the Second Xiangya Hospital in Changsha, China, and colleagues determined serum trypsinogen levels in 100 individuals with type 1 diabetes (72 new-onset, 28 established), 99 [patients](#) with type 1 diabetes-associated autoantibodies (AAb+) with varying levels of risk for developing diabetes, 87 AAb-negative (AAb-) controls, 91 AAb- relatives with type 1 diabetes, and 18 patients with type 2 diabetes.

The researchers found that in controls, trypsinogen levels increased significantly with age; while trypsinogen levels were significantly lower in patients with new-onset and established type 1 diabetes compared with AAb- controls, AAb- relatives, AAb+ subjects, and patients with type 2 diabetes. When considering age and [body mass index](#) in multivariate analysis, trypsinogen was reduced in multiple AAb+ subjects and patients with type 1 diabetes versus AAb- subjects (controls and relatives) and single-AAb+ subjects.

"These findings further support the interplay between pancreatic endocrine and exocrine dysfunction," the authors write. "Longitudinal studies are warranted to validate trypsinogen as a predictive biomarker of type 1 [diabetes](#) progression."

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

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