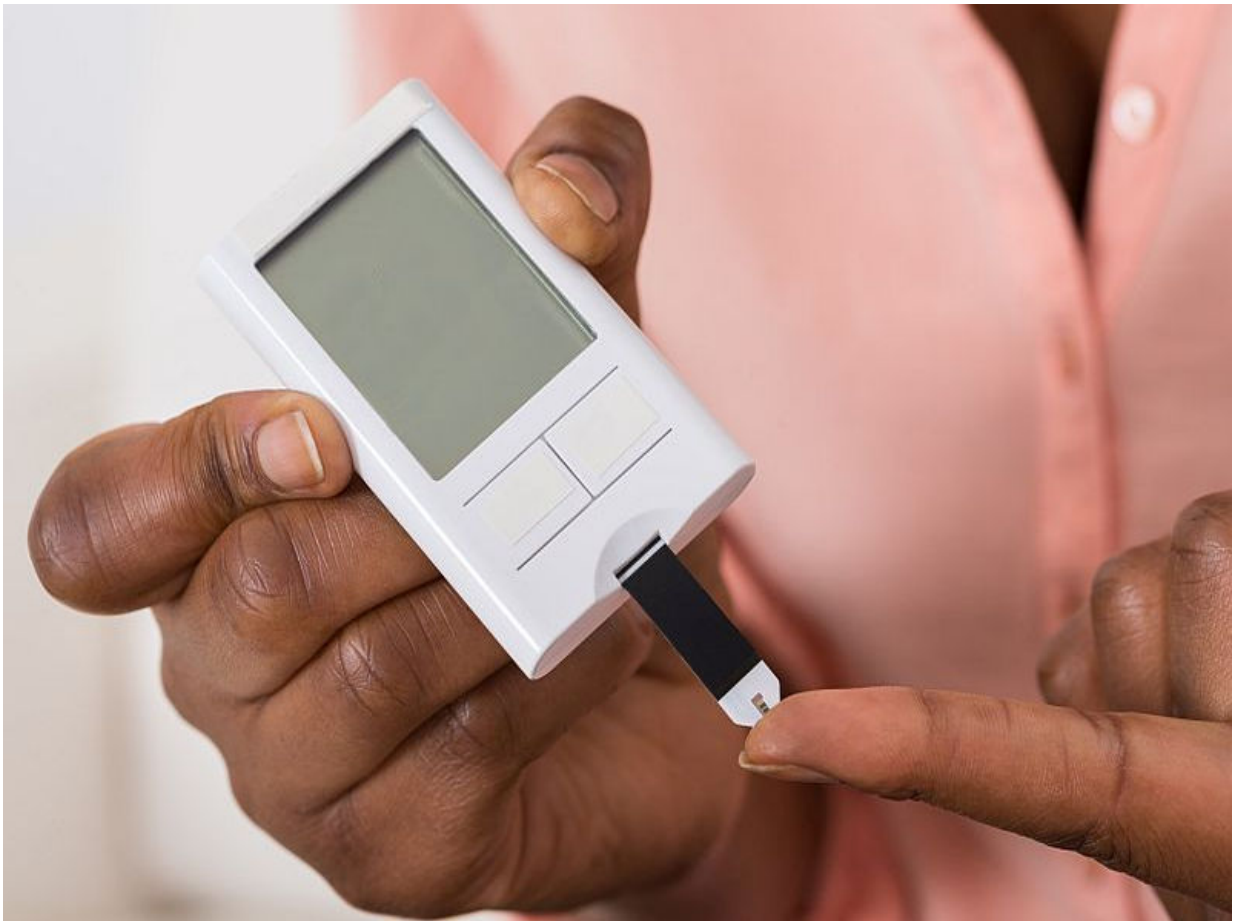


# Liraglutide doesn't affect gastric emptying in type 1 diabetes

November 28 2016

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(HealthDay)—For individuals with type 1 diabetes mellitus (T1DM),

liraglutide therapy does not affect the rate of gastric emptying (GE) during hypoglycemia, according to a study published online Nov. 21 in *Diabetes, Obesity and Metabolism*.

Christian Seerup Frandsen, M.D., from the University of Copenhagen in Denmark, and colleagues examined the effect of the glucagon-like peptide-1 receptor agonist (GLP-1RA) liraglutide on counterregulatory responses and GE rate during hypoglycemia in individuals with T1DM in a 12-week randomized trial. Twenty patients aged older than 18 years and with glycated hemoglobin  $\geq 8$  percent were randomized to liraglutide once daily or placebo as add-on to insulin [treatment](#). A hypoglycemic clamp was carried out followed by a liquid meal before and at the end of treatment.

The researchers observed no significant between-group differences in the changes in GE rates after 12 weeks of treatment ( $P = 0.96$ ); no significant changes were seen from baseline whether assessed by area under the acetaminophen curve or time to peak. Similar between-group results were seen in secondary end points, including glycemic recovery, counterregulatory hormone responses, [systolic blood pressure](#), and GLP-1 and pancreatic polypeptide responses. There was an increase in heart rate with liraglutide ( $69 \pm 4$  to  $80 \pm 5$  beats/min;  $P = 0.02$ ).

"Liraglutide does not compromise glycemic recovery, GE rate, or counterregulatory hormone responses in type 1 diabetes during [hypoglycemia](#)," the authors write.

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

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

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