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## **Effect of a purified amylase inhibitor on carbohydrate tolerance in normal subjects and patients with diabetes mellitus.**

Layer P, Rizza RA, Zinsmeister AR, Carlson GL, DiMagno EP.

### **Abstract**

Slowing starch digestion by inhibiting amylase activity in the intestinal lumen should improve postprandial carbohydrate tolerance in patients with diabetes mellitus. Crude bean-derived amylase inhibitor ("starch blocker") that contains only minimal anti-amylase activity, however, does not modify carbohydrate assimilation. To test the validity of the "starch blockade" concept, we assessed the effect of a partially purified bean-derived amylase inhibitor with increased anti-amylase activity on carbohydrate tolerance in normal subjects and in patients with non-insulin-dependent diabetes mellitus. In comparison with a placebo, ingestion of this inhibitor with 50 g of starch substantially reduced postprandial increases in plasma concentrations of glucose and insulin in both normal subjects and those with diabetes. We conclude that a purified amylase inhibitor is effective and potentially beneficial in the treatment of diabetes mellitus.

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