primary studies - published RCT

Pancreatic enzyme supplementation improves the incretin hormone response and attenuates postprandial glycaemia in adolescents with cystic fibrosis: a randomized crossover trial.

Code: PM24670086 **Year:** 2014 **Date:** 2014 **Author:** Perano SJ

Study design (if review, criteria of inclusion for studies)

double blinded randomised crossover trial.

Participants

14 adolescents (13.1 +/- 2.7 years) with pancreatic insufficient CF and 7 healthy age matched controls.

Interventions

Subjects consumed a high fat pancake, with either PERT (50,000IU lipase) or placebo.

Outcome measures

Post prandial hyperglycaemia measured as peak glucose and area under the curve for blood glucose at 240 minutes.

Main results

CF subjects had postprandial hyperglycaemia compared to controls (area under the curve, P

Authors' conclusions

In young people with pancreatic insufficient CF, PERT markedly attenuates postprandial hyperglycaemia by slowing gastric emptying and augmenting incretin hormone secretion.

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See also

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Keywords

Adult; Gastrointestinal Diseases; Hypoglycemic Agents; Insulin; pharmacological_intervention; Pancreas insufficiency; Pancreatic Diseases; Pancreatic Enzyme Replacement Therapy; Supplementation; Malabsorption; Nutrition Disorders; Capsules; Creon; Gastrointestinal Agents;