Other Reviews - - Other Review

Insulin therapy in patients with cystic fibrosis in the pre-diabetes stage: a systematic review.

Code: PM26994743 **Year:** 2016 **Date:** 2016 **Author:** Pu MZ

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

Systematic literature review

Participants

Prospective studies published in English, Portuguese and Spanish from 2002 to 2014. Patients with cystic fibrosis before the diabetes mellitus phase

Interventions

Insulin

Outcome measures

Weight parameters, body mass index and pulmonary function

Main results

Eight articles were identified that included 180 patients undergoing insulin use. Sample size ranged from 4 to 54 patients, with a mean age ranging from 12.4 to 28 years. The type of follow-up, time of insulin use, the dose and implementation schedule were very heterogeneous between studies.

Authors' conclusions

There are theoretical reasons to believe that insulin has a beneficial effect in the studied population. The different methods and populations assessed in the studies do not allow us to state whether early insulin therapy should or should not be carried out in patients with cystic fibrosis prior to the diagnosis of diabetes. Therefore, studies with larger samples and insulin use standardization are required.

http://dx.doi.org/10.1016/j.rpped.2015.12.010

See also

Rev Paul Pediatr. 2016 Sep;34(3):367-73. doi: 10.1016/j.rpped.2015.12.010. Epub 2016 Feb 24.

Keywords

Glargine; Insulin; Hypoglycemic Agents; pharmacological_intervention; Glucose Intolerance; Pancreatic Diseases; Gastrointestinal Diseases;