primary studies - published, non RCT

The long-term effects of insulin use in incident cystic fibrosis-related diabetes: a target trial emulated using longitudinal national registry data.

Code: PM36382232 **Year:** 2022 **Date:** **Author:** Granger E

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

Retrospective study, data from the national UK Cystic Fibrosis Registry

Participants

Eligible individuals included those 12â€…years and older with a new diagnosis of CFRD. 1613 individuals diagnosed with CFRD between 2008 and 2016.

Interventions

Insulin

Outcome measures

Change in % predicted forced expiratory volume in 1â€…s (FEV(1) %) and body mass index z-scores (BMI) over a 5-year follow-up period.

Main results

No evidence of an effect of insulin on FEV(1) % over the 5-year study period. Similarly, no overall effect of insulin on BMI; however, there was some evidence for a positive treatment effect in patients with lower baseline BMI.

Authors' conclusions

Using well-established national registry data, authors found no evidence of long-term treatment effects for insulin on FEV(1) % or BMI in people with incident CFRD.

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See also

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Keywords

Adult; Diabetes Mellitus; Gastrointestinal Diseases; Hypoglycemic Agents; Insulin; Pancreatic Diseases; pharmacological_intervention; Oral;