

primary studies - published RCT

## **Correction: Improved residual fat malabsorption and growth in children with cystic fibrosis treated with a novel oral structured lipid supplement: A randomized controlled trial.**

**Code:** PM32941528

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**Author:** Stallings VA

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

Double-blind randomized active placebo-controlled trial

### **Participants**

Children with cystic fibrosis (CF) and pancreatic insufficiency (PI). Subjects (n = 66, 10.5 $\pm$ 3.0 yrs, 39% female) with baseline CFA who completed a three-month treatment with Encala or a calorie and macronutrient-matched placebo were included in this subgroup analysis. Subjects were categorized by median baseline CFA: low CFA (<88%) and high CFA ( $\geq$ 88%).

### **Interventions**

A readily absorbable structured lipid (Encala, Envara Health, Wayne, PA)

### **Outcome measures**

At baseline and 3-month evaluations, CFA (72-hour stool, weighed food record) and height (HAZ), weight (WAZ) and BMI (BMIZ) Z-scores were calculated. Fasting plasma fatty acid (FA) concentrations were also measured.

### **Main results**

Subjects in the low CFA subgroup had significantly improved CFA (+7.5 $\pm$ 7.2%, mean 86.3 $\pm$ 6.7, p = 0.002), and reduced stool fat loss (-5.7 $\pm$ 7.2 g/24 hours) following three months of Encala<sup>TM</sup> treatment. These subjects also had increased plasma linoleic acid (+20%), alpha-linolenic acid (+56%), and total FA (+20%) (p

### **Authors' conclusions**

Subjects with CF, PI and more severe fat malabsorption experienced greater improvements in CFA, FA and growth after three months of Encala treatment. Encala was safe, well-tolerated and efficacious in patients with CF and PI with residual fat malabsorption and improved dietary energy absorption, weight gain and FA status in this at-risk group.

<http://dx.doi.org/10.1371/journal.pone.0239642>

### **See also**

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### **Keywords**

Child; Gastrointestinal Diseases; Lym-X-Sorb; non pharmacological intervention - diet; Pancreas insufficiency; Pancreatic Diseases; placebo; Malabsorption; Nutrition Disorders; Powders; Phosphatidylcholines; Gastrointestinal Agents; essential fatty acids;