

---

primary studies - published RCT

## Effect of linoleic acid intake on growth of infants with cystic fibrosis.

**Code:** PM8615359

**Year:** 1996 **Date:** 1996

**Author:** van Egmond AW

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

RCT

### Participants

infants with CF enrolled in the evaluation and treatment protocol of the Wisconsin CF Neonatal Screening Project. Group A (n = 43) and group B (n = 33)

### Interventions

predigested formula preparations A and B, with linoleic acid contents of 12% and 7% of energy, respectively, were fed before and after 1989

### Outcome measures

Outcome was assessed from height-for-age (HAZ) and weight-for-age (WAZ) Z scores on follow-up exams during the first year

### Main results

Baseline characteristics did not differ significantly between groups. At diagnosis, 53% of the enrolled infants (n = 76) showed low plasma linoleic acid concentrations and 22% had a high ratio of triene to tetraene. After correcting for the effect of potentially confounding variables, we found that HAZ (by .27, P

### Authors' conclusions

A high linoleic acid content in formula benefits infants with CF because it optimizes nutrition, growth, and feeding efficiency.

<http://www.mrw.interscience.wiley.com/cochrane/clcentral/articles/332/CN-00124332/frame.html>

### See also

Am J Clin Nutr. 1996 May;63(5):746-52.

### Keywords

Caloric Intake; Failure to Thrive; Food; Infant; linoleic acid; Newborn; non pharmacological intervention - diet; Nutrition Disorders; Supplementation; omega-6; essential fatty acids;