
Background:
Cow milk allergy (CMA) places children at risk for insufficient nutrient intake and poor growth. Because of this, the dietary management of CMA in children necessitates a diet that excludes allergens, while also promoting normal growth and development. This study set out to evaluate the growth of infants with CMA consuming a new amino acid-based infant formula (AAF) with an added synbiotic blend (prebiotics and probiotics). Safety was also evaluated.

Methods:
This prospective, double-blind controlled study involved full-term infants aged 0-8 months diagnosed with CMA. The infants were randomized to receive either a control AAF (Neocate® Infant DHA/ARA; n = 56) or a test AAF with synbiotics (Neocate + oligosaccharide blend + probiotic Bifidobacterium breve M-16V; n = 54). The study duration was 16 weeks and the primary outcome, growth, was assessed using weight, length and head circumference. Secondary outcome measures were parameters that assessed allergic signs and symptoms as well as stool characteristics.

Results:
At inclusion infants were 4.5 ± 2.4 months of age. Results showed that both infants receiving the AAF or the AAF with synbiotics achieved adequate and similar growth during this study. Based on WHO 2006 growth charts, there were no significant differences (90% CI) between groups in Z-scores (test/control) after 16 weeks: weight (p = 0.32), length (p = 0.21) and head circumference (p = 0.40). Neither were there significant differences between the two groups in weight-for-age or length-for-age z scores. In addition, both formulas were well tolerated and both reduced symptoms of CMA, with no difference in numbers of adverse events between the two groups.

Conclusions:
This study is the first to demonstrate that an AAF with an added synbiotic blend of specific components, suitable for infants with CMA, promotes normal growth, as well as growth in infants with CMA similar to a reference AAF.

Neocate with synbiotics and Neocate Infant DHA/ARA were both demonstrated to support normal growth and resolve food allergy symptoms in infants with IgE- and/or non-IgE-mediated CMA.

Neocate® Syneo™ Infant is a nutritionally complete infant formula with prebiotics and probiotics that is backed by this large clinical trial in CMA infants:
- to support normal growth and development of CMA infants
- to be safe and well tolerated, and
- to effectively resolve food allergy symptoms

Adapted from publicly available abstract - http://www.ncbi.nlm.nih.gov/pubmed/25845680

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