Infant feeding and development of atopic and autoimmune disease - Review B - Timing of introduction of allergenic foods to the infant diet

Area of research interest:  Food hypersensitivity  
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Conducted by:  Imperial College, London

Background

Atopic conditions, including asthma, eczema and food allergy, appear to have increased in prevalence in recent decades in many countries, and are some of the commonest causes of chronic illness in children and young adults living in the UK.

The relationship between the timing of when allergenic foods are introduced into the infant diet and a child’s risk of developing any of these common atopic and/or autoimmune diseases has been an area of considerable scientific uncertainty and debate in recent years.

Research Approach

The key objective of this work was to undertake a systematic review of the published literature to investigate whether the timing of introduction of common allergenic foods to the infant diet influences the risk of developing atopic diseases (such as asthma, eczema or food allergy) or autoimmune diseases (such as diabetes mellitus or Crohn's disease).

Results

Following their comprehensive review of the literature, the contractors identified the following key findings:

- The introduction of egg (from 4-6 months of age) or peanut (from 4-11 months of age) into the diet of infants may reduce their risk of developing egg or peanut allergy respectively.
- The early introduction of gluten into the infant diet did not increase the risk of developing celiac disease.
- Introducing fish before 6-12 months of age may reduce the risk of developing allergic rhinitis and allergic sensitisation.