

Early dietary interventions to prevent allergy

- LEAP, LEAP-On
- STAR, BEAT, STEP, HEAP egg
- EAT egg, peanut, wheat, sesame, milk, fish
- PreventADALL peanut, milk, egg, wheat
- PEAAD peanut

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy

Peanut allergy 'cut by early exposure'

Exposing infants to peanuts causes big reduction in peanut allergy, study shows

Feed babies peanut products to reverse rise in allergy, say scientists

Feeding peanuts to babies protects from peanut allergies, scientists find

Allergy prevention advice 1998-2008

 Pregnant or breastfeeding women who are themselves atopic, or where another firstdegree relative of the child is atopic, may wish to avoid eating peanuts and peanut products during pregnancy and lactation.

https://cot.food.gov.uk/committee/committee-ontoxicity/cotreports/cotwgreports/cotpeanutallergy































LEAP Study - Impact on breastfeeding

Feeding characteristics	Avoiders (N = 321)	Consumers (N = 319)	Total (N = 640)	P value
Breast and formula feeding				
Participant breast-fed?				.25*
Yes, n (%)	292 (91.0)	298 (93.4)	590 (92.2)	
Age at cessation of breast-feeding (mo)				.151
n (%)	289 (90)	290 (90.9)	579 (90.5)	
Mean ± SD	7.5 ± 5.8	8.1 ± 5.8	7.8 ± 5.8	
Breast-feeding at randomization?				.23*
Yes, n (%)	127 (39.6)	141 (44.2)	268 (41.9)	
Number of months breast-fed postrandomization				.561
n (%)	127 (39.6)	141 (44.2)	268 (41.9)	
Mean ± SD	4.9 ± 4.8	4.7 ± 4.9	4.8 ± 4.9	
Given formula before randomization?				.52*
Yes, n (%)	287 (89.4)	290 (90.9)	577 (90.2)	
Age solid food introduced at baseline (mo)				
Earliest age any solid introduced				.931
n (%)	321 (100)	319 (100)	640 (100)	
Mean ± SD	5.0 ± 0.9	5.0 ± 0.8	5.0 ± 0.9	

Feeney M, Du Toit G, Roberts G, Sayre PH, Lawson K, Bahnson HT, et al. Impact of peanut consumption in the LEAP Study: Feasibility, growth, and nutrition. J Allergy Clin Immunol 2016







Conclusions

- Peanut consumption beginning in the first year of life prevents peanut allergy in a high-risk population.
- Safe, effective and feasible
- Associated with immunological changes
- Effects are maintained following 12 months of avoidance or if peanut is consumed in lesser amounts after 5 years of age.

What next?

- Are the effects of early-life peanut consumption maintained if peanut is continued *ad-libitum* over many years?
- Allergy prevention guidelines under expert review.
- NIAID published update in 2016

https://www.niaid.nih.gov/sites/default/files/peanut-allergyprevention-guidelines-clinician-summary.pdf

• Results from other intervention studies under consideration re. other allergens.... Guidance to follow.