Early Gluten Introduction and Celiac Disease in the EAT Study A Prespecified Analysis of the EAT Randomized Clinical Trial

Logan K, Perkin MR, Marrs T et al. JAMA Pediatr Sept 2020 (ahead of print) 10.1001/jamapediatrics.2020.2893

Rationale: Earlier observation based studies suggested higher prevalence of celiac disease if complementary feeding is started <4months or >6 months of age. Thereafter comflicting evidence regarding time of weaning is associated to gluten allergy in systematic reviews and celiac disease guidelines. No consensus.

Objective: To determine whether early introduction of high-dose gluten lowers the prevalence of CD at age 3 years

Methodology: Enquiring About Tolerance (EAT) Study: open-label randomized clinical trial of 1004 children

from UK. Infants were randomized: 1) consume 6 allergenic foods (peanut, sesame, hen's egg, cow's milk, cod fish, and wheat) + breast milk from age 4 months (early introduction group [EIG]) 2) avoid allergenic foods and follow UK infant feeding recommendations of exclusive breastfeeding until approximately age 6 months (standard introduction group [SIG]).

ACADEMIC P.E.A.R.L.S

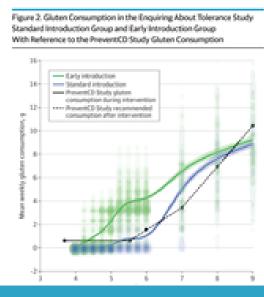
Pediatric Evidence And Research Learning Snippet

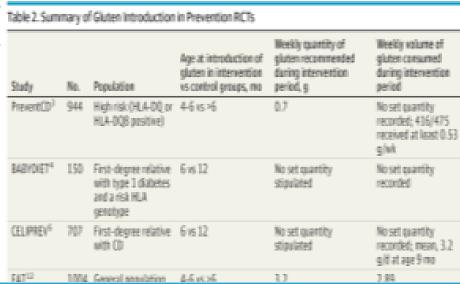


TIME OF WEANING & GLUTEN ALLERGY- IS THERE A LINK?

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Results:

- •Mean (SD) quantity of gluten consumed between ages 4 and 6 months was 0.49 (1.40) g/wk in the SIG and 2.66 (1.85) g/wk in the EIG (P < .001).
- •Mean (SD) weekly gluten consumption ranged from 0.08 (1.00) g/wk at age 4 months to 0.9 (2.05) g/wk at age 6 months in the SIG vs 1.3 (1.54) g/wk at age 4 months to 4.03(2.40) g/wk at age 6 months in the EIG.
- •In SIG 1.4% had a diagnosis of CD confirmed vs none in EIG (P = 0.02)

Conclusions (from the authors)

- •In this analysis of infants in the EAT Study, the introduction of gluten from age 4 months was associated with reduced CD prevalence.
- •These results suggest that early high-dose consumption of gluten should be considered as a strategy to prevent CD in future studies

EXPERT COMMENT



"Exclusive breast feeding in India must still continue for 6 months as per standard guidelines. For celiac disease in India, introduction and quantity of gluten at 4 months is a cautionary advice. Further trials in India will be required due to region-specific diets and diverse ethnicities"

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<u>Reference</u>