

ABSTRACT SUBMISSION FORM

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SEX + GENDER

Exploring the role of sex and gender on health research



CHR D 2020: Abstract Submission Form

Submitter Name

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Title

Prenatal Diet and Infant Sensitization in the CHIL D Cohort

Background

Early introduction of highly-allergenic foods has been associated with decreased risk of sensitization and allergy.

Objective

We examined associations between maternal diet during pregnancy and infant sensitization to egg, peanut, cow's milk, and dust mites.

Methods

CHIL D participants were recruited from the general population before birth. Maternal diet, including frequency of egg consumption, was reported prenatally. Infant diet was reported at birth and every 3-6 months. At ages 1 and 3 years, sensitization to allergens, including egg, peanut, cow's milk, and dust mites, was measured by skin prick testing. Atopic dermatitis was diagnosed clinically starting at age 6 months. Multivariable logistic regression was used to examine associations between maternal prenatal consumption of egg and other food allergens, timing of infant dietary introduction of food allergens, and child sensitization to egg, peanut, cow's milk and dust mites.

Results

CHIL D participants were recruited from the general population before birth. Maternal diet, including frequency of egg consumption, was reported prenatally. Infant diet was reported at birth and every 3-6 months. At ages 1 and 3 years, sensitization to allergens, including egg, peanut, cow's milk, and dust mites, was measured by skin prick testing. Atopic dermatitis was diagnosed clinically starting at age 6 months. Multivariable logistic regression was used to examine associations between maternal prenatal consumption of egg and other food allergens, timing of infant dietary introduction of food allergens, and child sensitization to egg, peanut, cow's milk and dust mites.

Conclusion

Children were more likely to be sensitized to egg, peanut, and cow's milk if their mothers ate egg daily during pregnancy, even after accounting for age of egg introduction into the infants' diets. Further research should explore possible mechanisms of these associations.

Theme:

Clinical

Do you have a table/figure to upload?

No

Are you willing to participate in Goodbear's Den?

Yes

Presenter Status:

Residents

What was your role in the project?

contributed to the study design, conducted the data analysis, and wrote and revised the abstract

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