

## **Comparison of Atopic Dermatitis Events Between Breastfed and Breastfed Plus Formula In Children**

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**Abstract : Background :** Food allergy is a common trigger factor for the occurrence of atopic dermatitis in infants. The introduction of an early feeding e.g. infants' formula in early life is one hypothesis for the occurrence of atopic dermatitis.

**Objective :** To compare the incidence of atopic dermatitis in infants who are breastfeeding only with the infants who are breastfeeding plus formula combined.

**Methods :** The study was observational analytic with cross sectional study design, carried out in PuskesmasPuloBrayan in July-December 2016. Infants aged 12-60 months amounted to 114 then divided into two groups: a group with breastfeeding only and the group of breastfeeding plus formula combined; taken by consecutive sampling. Atopic dermatitis is made by ISAAC questioner through the interviews.

**Results :** Of the 57 breastfed only infants, there were 10 infants (17.5%) who suffered from atopic dermatitis, while on the other group; only 8 out of 57 (14.0%) had the similar problem. Atopic dermatitis most often found on the neck, ears, and eyes (44.4%). There were no significant differences of the incidence of atopic dermatitis based on the eating history as a baby, between breastfed only infants and breastfed plus formulas combined ( $p = 0.067$ ). There were also no relationship between maternal educational status and family history of atopic with the incidence of atopic dermatitis ( $p$ -value 0.075 and 0.059 respectively).

**Conclusions :** There were no significant differences between the incidence of atopic dermatitis in breastfeeding only infants and breastfeeding plus formula.

**Keywords :** Atopic dermatitis, breastfed, formula

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