



ABSTRACT

Background: *Asthma is a chronic respiratory disease. Atopy is defined as producing an IgE response to other specific allergens, especially allergic rhinitis and can be found in 40%-50% of the population in affluent countries. Risk factors that can lead to asthma and trigger factors for asthma are a family history of atopy and a history of respiratory symptoms on their severity.*

Objective: *To determine the relationship between atopy scores and asthma severity in children*

Methods: *This research is a type of cross sectional research with secondary data from the main research entitled "Outcomes of Immunotherapy in pediatric patients with asthma". Data retrieval of Atopi Score was carried out by interviewing parents from Idai Immunology UKK which contained the risk of family risks to my father, mother and siblings. Symptoms of illness are assessed based on the classification of the degree of asthma national guidelines for children. The inclusion criteria are in children less than 18 years with a diagnosis of asthma. In this study, the level of risk atopy was divided into small, medium and high. Patient Exclusion Criteria with Incomplete Data This study was conducted at the Immunology Poly of the Children's Health Installation (Inska) RSUP Dr. Sardjito Yogyakarta in April 2021-July 2021. The data results are then included in the SPSS program to be analyzed.*

Results: *Of the 34 respondents in the study, there were 12 (35.2%) respondents with low-moderate atopy scores with intermittent severity. 10 (29.4%) respondents with low-moderate atopy scores had persistent asthma severity. 8 (23.5%) respondents scored high atopy with intermittent severity and 4 (11.7) respondents scored high atopy with persistent asthma severity. Thus, when the correlation test was conducted between the risk of atopy and the severity of asthma, there was no relationship between the two variables ($P>0.05$).*

Conclusion: *In this study, there was no significant relationship between the atopy score variable and the asthma severity variable.*

Keywords: *Atopi, severity, asthma, child*