

Children with allergic asthma sensitized to house dust mites getting better health during COVID-19 pandemic

Yuyun Li¹, Lili Zhi¹, Yunmei Zhu¹, Lan Qiao¹, Yan Zhu¹, Xin Hu¹, Qian Wang¹, Dongming Wang², and Fangjie Bi¹

¹Zibo Central Hospital

²Pediatrics People's Hospital of Huantai County 2198 Huantai Street Zibo City 256400 China

April 05, 2024

Abstract

Background: Since December 2019, 2019 novel corona virus (2019-nCov) disease (COVID-19) has extended to most parts of China with more than 80 thousand cases. From Feb 1st to Mar 31st of 2020, all children were asked to stay indoors in China. Then how it affected allergic asthma (AA) sensitized to house dust mites (HDM) in children was interestingly to clarify. Objective: To investigate the changes of clinical characteristics of children with AA sensitized to HDM during COVID-19 pandemic. Method: The data including asthma symptom scores(SS), visual analog scores (VAS), asthma quality of life questionnaire (AQLQ) and medicine scores (MS) as well as respiratory infections, cares, staying up late and diets, collected from children with AA sensitized to HDM from Feb 1st to Mar 31st of 2019 and 2020 retrospectively, were analyzed. Results: There were 85 children with AA sensitized to HDM included in this research. Compared with SS, VAS, AQLQ and MS of the patients from Feb 1st to Mar 31st of 2019, SS, VAS, AQLQ and MS of the patients improved significantly ($p < 0.05$) during COVID-19 pandemic. No respiratory infections occurred among them and they got better cares, had better diets and stayed up late less during COVID-19 pandemic. Conclusion: During COVID-19 pandemic, children with AA sensitized to HDM got better health for staying indoors, which might be associated with no respiratory infections, better cares, better diets and less staying up late.

Hosted file

The final 2021.docx available at <https://authorea.com/users/735303/articles/711749-children-with-allergic-asthma-sensitized-to-house-dust-mites-getting-better-health-during-covid-19-pandemic>