Wheezing infant and allergic sensitization: is this really important?

INTRODUCTION

Allergic diseases have increased worldwide.

Two Brazilian studies (PROAL I and II) were carried out in 2004 and 2016 to document allergic sensitization in children and adolescents.

OBJECTIVE

Evaluate the allergic sensitization profile in wheezing infants of PROAL II using ImmunoCAP (ICAP) and ImmunoCAP ISAC (ISAC) (Thermofisher[®]) methods and compare them to clinical history.

METHODS

Retrospective, cross-sectional, multicenter analysis of 470 patients of PROAL II.

Included 39 infants/preschooler children diagnosed with recurrent wheezing, which investigated for allergic sensitization by both methods ICAP and ISAC with recorded clinical data.

CONCLUSION

Allergic sensitization in infants was uncommon and not related to severity or prematurity, but ICAP looked more sensitive to evaluate sensitization in this age. As immunoglobulin E concentrations increases with age, the high prevalence of FHA allows us to expect an increasing sensitization over time. More studies are required to understand early allergic sensitization and asthma development.

REFERENCES

Naspitz CK, et al. Sensibilização a alérgenos inalantes e alimentares em crianças. J Pediatr (Rio J). 2004; 80(3):203-10.

2. Naspitz CK, et al. Phadiatop[®] no diagnóstico de alergia respiratória em crianças. J Pediatr (Rio J). 2004; 80(3):217-22.

3. Aranda CS, et al. Increased sensitization to severall allergens over 12-year period in Brazilian children. Pediatr Allergy Immunol. 2018; 1-3.

Brandão, LS; Aranda, CS; Cocco, RR; Wandalsen, G; Solé, D.

Federal University of São Paulo – UNIFESP / Brazil

Allergic sensitization in infants was uncommon and not related to severity or prematurity, but ICAP looked more sensitive to evaluate sensitization in this age.

RESULTS

Total = 39 patients (64% male / 36% female) Mean age = 11,7 months / Median age = 12 months Begin of symptoms = 4 months (mean)



35	
30	
25	
20	
15	
10	
5	
0	





For contact please send e-mail to: larissab@globo.com