



Udruženje
za preventivnu pedijatriju Srbije

KNJIGA APSTRAKATA



X NACIONALNI KONGRES UDRUŽENJA ZA
PREVENTIVNU PEDIJATRIJU SRBIJE

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deseti nacionalni kongres Udruženja za
preventivnu pedijatriju Srbije (UPPS)
sa međunarodnim učešćem

Organizator:
Udruženje za preventivnu pedijatriju Srbije



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FOOD ALLERGIES ON THE RISE: THE ROLE OF ANTHROPOGENIC CHEMICALS

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Food allergies have increased dramatically in the last decade, especially in developed countries. Food tolerance requires strict maintenance of a specific microbial portfolio in the gastrointestinal tract, as changes in the gut microbiome can lead to its disruption, which in turn causes inflammation and pathogenic gut conditions leading to the development of food allergies. Any environmental factors that lead to a disturbance and/or malfunction of the gastrointestinal tract and digestive performance favor the development of food allergies.

Based on that, what do we know about the role of increasing anthropogenic chemicals, including emerging ones, resulting from the new global situation?

There is awareness that their effects are multifaceted, e.g., chemicals affect the growth of plants and animals and thus the quality of the food produced. In addition, chemicals affect our food during its production and processing, but also affect our body and gastrointestinal tract. It is time to fill the knowledge gaps and understand how these interactions between environmental triggers such as industrial and traffic pollution, transition and heavy metals, pesticides, chemtrails, etc., affect food allergens and their allergenicity, adjuvant effects, and the increasing prevalence of food allergies.

Some improvements in this area are already being made through advances in 'omics' technologies (i.e., proteomics, genomics, metabolomics) and systems biology approaches that will hopefully provide a scientific understanding of the relationship between increasing food allergies and the increasingly present wide variety of anthropogenic chemicals in our environment.

Key Words: biomarkers of chemical contamination, emerging chemicals, immunoproteomics, food allergens, gastrointestinal digestion

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