Anaphylaxis to fish vapors – Case report

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**Background:** Food allergy accounts for a significant social and economic impact worldwide. An increasing number of severe life-threatening reactions have been linked to food allergies. Anaphylactic reactions to foods are frequently attributed to exposure to fish allergens, mainly in the adult population, and respiratory symptoms occur in approximately 50% of fish allergic patients. Prevalence rates of self-reported fish allergy reaches 8% among fish processing workers.

**Report:** We report the case of a 47-year-old male patient, with a personal history of atopy (sensitization to Dermatophagoides farinae and Dermatophagoides pteronyssinus), known to suffer from asthma and moderate/severe persistent allergic rhinitis, working as a chef assistant, who refers to the Allergy Service of the Regional Institute of Gastroenterology and Hepatology "Professor Doctor Octavian Fodor", Cluj-Napoca, Romania, with a history of asthma exacerbations and one anaphylactic episode triggered by occupational exposure to fish vapors. The clinical history reveals contact urticaria to uncooked fish, and two episodes of facial angioedema and acute generalized urticaria after ingestion to lobster and salmon, respectively. Further clinical and paraclinical workup confirmed the atopic diathesis. In vivo sensitization to Der f and Der p, as well as to fish (salmon, tuna, merlucius, herring, and fish mix) was documented.

**Clinical Relevance of Report:** Hypersensitivity reactions to fish present with a wide range of clinical symptoms. In this paper, we aim to highlight the interrelation between asthma and food allergies, by presenting the case of a young male patient with asthma exacerbations and a systemic life-threatening hypersensitivity reaction to fish vapors, as well as contact urticaria after handling uncooked fish, and systemic hypersensitivity reactions triggered by ingestion of salmon and lobster.

**Statement of consent for Publication and Presentation:** With the submission of this abstract, I would like to undertake that the authors give their consent for publication and presentation.