

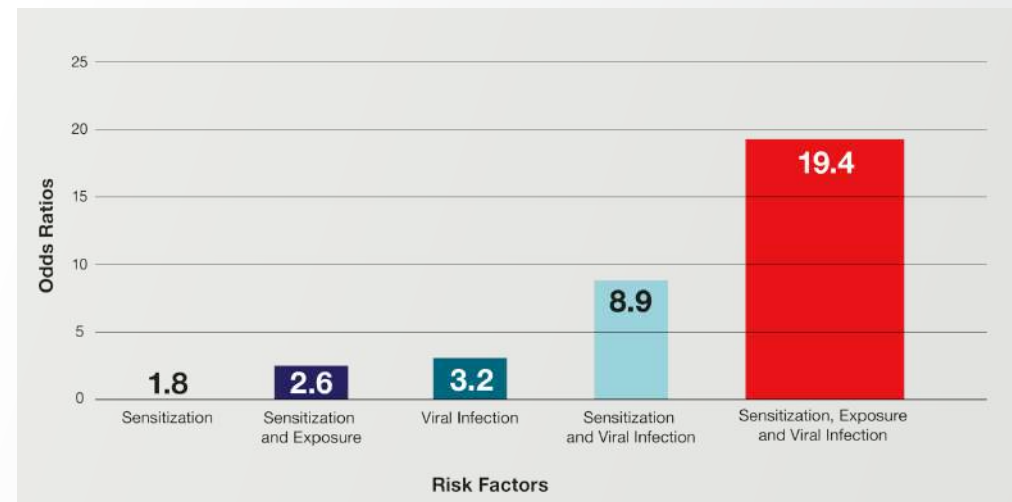
Reducing the risk of hospital admission, despite viral infection

Reducing the risk of hospital admission despite viral infection

Reducing exposure to sensitized allergens, regardless of the allergic presentation, has been shown (when approached in a multifaceted manner) to reduce IgE-load, reducing allergic symptoms.¹

Aeroallergen sensitization impairs antiviral response:²⁻⁴

- Plasmacytoid dendritic cells, which have a major role in innate viral response, possess high-affinity IgE-receptors
- **Engagement of these IgE-receptors interferes with their IFN- α antiviral response to respiratory viruses, including rhinovirus**
- Blocking IgE with Omalizumab restored response to rhinovirus and **led to less severe exacerbations**



Adapted from Murray *et al.* 2006.¹

The WAO — ARIA — GA²LEN consensus document on Precision Allergy Molecular Diagnosis Application (PAMD@) recommends the utilization of molecular allergen testing to aid in the management of patients with multiple aeroallergen sensitizations to guide and prioritize management strategies.⁵

1. Murray CS, *et al.* *Thorax* 2006; 61: 376-382. 2. Teach SJ, *et al.* *J Allergy Clin Immunol* 2015; 136:1476-85. 3. Esquivel A, *et al.* *Am J Respir Crit Care Med* 2017; 196:985-92. 4. Gill MA, *et al.* *J Allergy Clin Immunol* 2018; 141:1735-43.e9. 5. Anotegui J, *et al.* A WAO – ARIA – GA²LEN Consensus Document on Molecular-based Allergy Diagnosis (PAMD@): Update 2020. *World Allergy Organization Journal*. 2020; 13: 100091.