Allergy and asthma are often diagnosed concomitantly. Patients with both diagnosis might need to have a more targeted approach to reduce the symptomatic burden and severity of the disease.

Explore the relationship between specific allergen sensitivity with asthma diagnosis and severity of asthma.

Concomitant allergic rhinitis increases these risks

Risk of developing asthma and having more severe asthma increases with a higher allergy class response

There is no strong correlation between the number of allergens and asthma unless one of the previously mentioned is positive.

Even though a focused specific phenotype could not be identified, these data show clear trends that suggest that female patients with allergies to house dust, cat, dog or Cladosporium herbarum, with concomitant allergic rhinitis and those with higher class IgE response will potentially develop more complex or severe asthma cases. This may allow for more personalized preventative care.