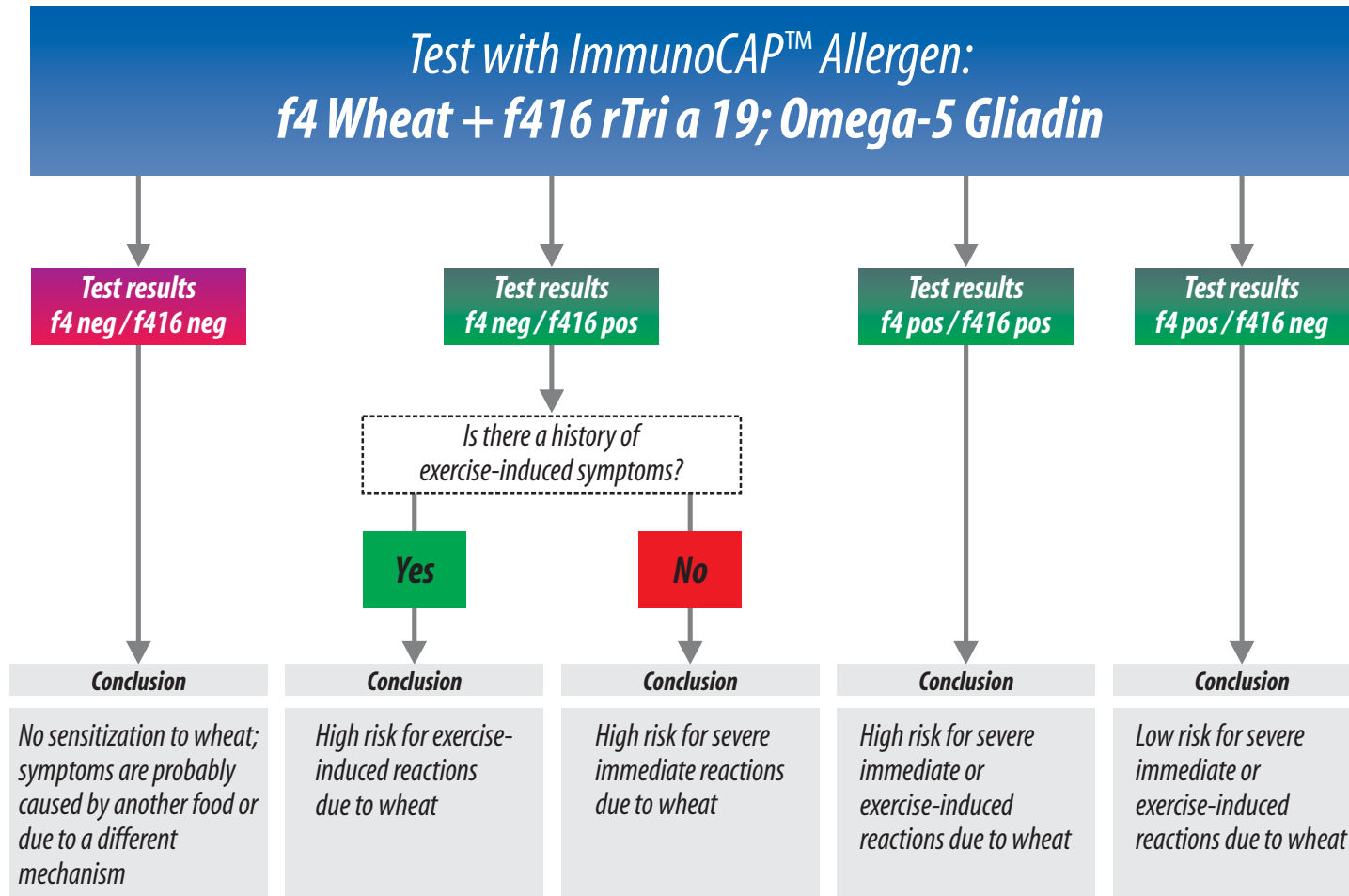


# Investigation of risk for severe immediate or exercise-induced reactions in patients with suspected wheat allergy



## References

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**Test chart;**  
***“Investigation of risk for severe immediate or exercise-induced reactions in patients with suspected wheat allergy”***

***Wheat allergies are often difficult to diagnose due to diffuse symptoms and different mechanisms involved***

ImmunoCAP™ Allergen f4 Wheat contains mainly water soluble components from the wheat grain while omega-5 gliadin is a water insoluble wheat protein. The use of ImmunoCAP™ Allergen f416 rTri a 19; Omega-5 Gliadin as a complementary test to ImmunoCAP Allergen f4 Wheat can help to identify patients at risk to develop severe immediate and/or exercise-induced symptoms from wheat.

**“Is there a risk for severe immediate and/or exercise-induced symptoms?”** is a crucial question to ask when IgE antibodies to wheat are found or if there is a history of such symptoms.

This algorithm is a suggested diagnostic test procedure based on testing with both ImmunoCAP Allergen f4 Wheat and ImmunoCAP Allergen f416 rTri a 19; Omega-5 Gliadin. It includes interpretation of the possible outcomes.

***Some facts:***

- IgE antibodies to omega-5 gliadin can be considered as a risk marker for two groups of patients; patients with severe immediate reactions and patients with exercise-induced reactions.
- Severe immediate reactions to wheat are important to identify, especially in children. Approximately 80% of patients with these reactions have IgE antibodies to both omega-5 gliadin and ImmunoCAP Allergen f4 Wheat. The remaining 20% of the patients have allergen-specific IgE antibodies to other components in wheat and will thus be positive with ImmunoCAP Allergen f4 Wheat.
- Wheat dependent exercise-induced anaphylaxis (WDEIA) is a rare but severe condition. Approximately 80% of patients with WDEIA have IgE antibodies to omega-5 gliadin. 30-50% of the patients with WDEIA have no specific IgE antibodies with ImmunoCAP Allergen f4 Wheat. However a majority of these patients are positive with ImmunoCAP Allergen f416 rTri a 19; Omega-5 Gliadin.