Use components to identify patients for appropriate grass pollen SIT

Resolve multiple positivity to pollen tests
Take the diagnosis and management of grass pollen-allergic patients to a whole new level

Use components to verify “true” grass pollen sensitization
Grass pollen allergy is common and most grass pollen allergic patients are sensitized to several other pollens.\textsuperscript{1,2,3} Components help to distinguish between positive results due to sensitization to specific grass pollens and the cross-reactivity to food, weed or tree pollens.\textsuperscript{4,5}

- Grass pollen-specific components: Phl p 1, Phl p 2, Phl p 4, Phl p 5, Phl p 6, Phl p 11.
- Markers for cross-reactivity: Phl p 7 (polcalcin), Phl p 12 (profilin).

Identify patients for appropriate SIT treatment
An accurate diagnosis on the molecular level increases the likelihood of successful SIT; patients with primary sensitization to specific components have a better outcome of treatment as compared to patients sensitized only to cross-reactive components.\textsuperscript{6,7,8,9}

A recent study showed that more than 50% of the patients had their pollen SIT treatment changed when components were used in the diagnostic work-up.\textsuperscript{10}

Improved patient management and quality of life
An accurate grass pollen diagnosis and appropriate immunotherapy can:

- Reduce allergic symptoms
- Improve the quality of life
- Optimize SIT outcome
Did you know that?

- Grass pollen allergy is common worldwide, and in some regions up to 40% of atopics show sensitization to grass pollen.\(^1\,^4\,^11\)
- Group 1 and group 5 allergens (Phi p 1 and Phi p 5) are the dominating grass pollen allergens. More than 90% of patients with sensitization to grass pollen have IgE abs to Phi p 1 and/or Phi p 5.\(^4\,^5\,^8\)
- Sensitization to the cross-reactive allergens profilin and polcalcin is usually not frequent (< 20%). When no specific grass sensitization is detected other pollen or food specific components should be investigated.\(^3\,^4\,^8\)
- Up to 30% of patients suffering from pollinosis simultaneously present allergy to fruits and vegetables, such as peanut, soy and tomato, either due to cross-reactivity or true co-sensitization.\(^2\)
- The SIT extract chosen for treatment should ideally contain appropriate concentrations of the components indicated as trigger of the symptoms.\(^6\,^9\,^11\)
- Effective SIT is usually associated with increased IgG4 and reduced IgE antibody levels. Grass components can be used to monitor the levels of IgE and IgG4 during SIT treatment to ensure compliance.\(^9\,^{12}\,^{13}\)
- SIT treatments are expensive and prescribed for several years. A correct diagnosis is therefore important.\(^6\,^{14}\)

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### ImmunoCAP® Allergen Components

<table>
<thead>
<tr>
<th>Phleum pratense</th>
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</thead>
<tbody>
<tr>
<td>- Specific components for grass</td>
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<tr>
<td>- Indication for grass pollen SIT</td>
</tr>
<tr>
<td>Phi p 1, Phi p 5b</td>
</tr>
<tr>
<td>Phi p 2, Phi p 4, Phi p 6, Phi p 11</td>
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<tr>
<td>Phi p 7, Phi p 12</td>
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</tbody>
</table>

- Cross-reactive allergen components
- Often minor allergens which may not be available in sufficient amount in the SIT extract
- IgE to Phi p 7 and 12 alone indicate low suitability for grass pollen SIT. Keep on looking for the real cause.
Make a precise assessment
ImmuNoCAP Allergen Components help you differentiate between "true" allergies and cross-reactivity

Make a substantiated decision
A better differentiation helps you give relevant advice and define the optimal treatment

Make a difference
More informed management helps you improve the patient’s well-being and quality of life


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