

Profilin, a Change in the Paradigm

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CME Items

- Which of the following is correct?
 - Profilins are actin-binding proteins that regulate cell movement and signal transmission.
 - Profilins are 12- to 15-kDa proteins that can be found in all eukaryotic cells.
 - Profilins can be found in vegetables, fruits, pollen, and latex.
 - All of the above are correct.
- Which of the following statements is correct?
 - Profilin-allergic patients are primarily sensitized through the airway.
 - Profilin never causes systemic symptoms because it is gastric acid-labile.
 - Profilin-allergic patients are primarily sensitized through the digestive route.
 - Profilin-induced symptoms are always limited to the oral cavity.
- Which of the following is incorrect with respect to the diagnosis of profilin sensitization?
 - Natural palm tree profilin (nPho d 2) is the most frequently studied extract used to assess profilin sensitization in the in vivo test.
 - The recombinant profilin from birch pollen (r Bet v 2) is a good marker.
 - The natural form of the palm tree profilin (nPho d 2) is usually applied for in vitro identification of pollen sensitization.
 - All of the above are correct.
- Despite being a minor allergen in most plant foods, in which of the following does profilin act as a major allergen?
 - Melon (Cuc m 2)
 - Orange (Cit s 2)
 - Soybean (Gly m 3)
 - All of the above
- Which of the following is true with respect to the impact of profilin sensitization on the selection of allergen immunotherapy?
 - Profilin sensitization facilitates diagnosis and treatment in pollen-polysensitized patients.
 - Profilin is one of the main confounding factors when deciding the allergen composition of immunotherapy.
 - CRD is helpful in assessing the presence of major and cross-reactive allergens and provides the best information on clinical relevance.
 - Organ-specific challenges are not an appropriate way to assess clinical relevance in polysensitized patients.
- Which of the following is not true for profilin allergy treatment?
 - A recombinant form of Phl p 12 and a mutant form of Cuc m 2 (melon profilin) have been developed and proposed as candidates for profilin allergy immunotherapy.
 - The best way to treat profilin sensitization/allergy could be preventive administration of regular allergen immunotherapy in early stages of pollen sensitization.
 - There is contradictory information about whether grass monotherapy is likely the best therapeutic option to treat profilin-sensitized patients or not.
 - Profilin-positive grass-monoallergic patients can be identified for allergen immunotherapy with whole-extract-based diagnosis.
- In type II food allergy caused by profilin, which of the following is correct?
 - Currently, the best option for profilin allergy treatment may be sublingual immunotherapy with an nPho 2 extract.
 - Profilin generally induces mild symptoms and therefore is not an important therapeutic target.
 - The production of plant foods with reduced allergenicity has not been studied in patients with profilin allergy.
 - Pollen allergen immunotherapy can be used for effective treatment of secondary food allergy.
- Which of the following factors have been pointed out as a potential asthma risk factor in pollen-sensitized patients?
 - Ole e 2
 - Ole e 9
 - Oral allergy syndrome to *Cucurbitaceae* fruits
 - Responses a) and c) are correct.
- Which of the following statements is correct?
 - Profilin sensitization is irrelevant from a clinical point of view.
 - There is a south-north gradient of increased profilin sensitization.
 - Profilin can trigger conjunctival symptoms in conjunctival challenges, and it remains to be elucidated whether it can also trigger these symptoms under real-life conditions.
 - Profilin induces nasal but not bronchial symptoms.
- Which of the following is not true?
 - Melon, peach, and strawberries are the most common fruits related to profilin food allergy.
 - Food profilin reactions induce remodeling in the oral mucosa.
 - There are no reported systemic reactions due to profilin food allergy.
 - All the above are incorrect.