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## Clinical Approaches to Accurate Allergy Diagnosis

Hitoshi Iwamoto\*

Department of Kidney Transplantation Surgery, University of Bologna, Bologna, Italy

### DESCRIPTION

Recent years have seen an increase in the prevalence of allergies, which now impact millions of individuals globally. The clinical diagnosis of allergies plays a crucial role in identifying specific allergens, understanding their impact on individuals, and formulating effective treatment plans. In this article, we will explore the various methods and approaches utilized in clinical diagnosis to accurately identify allergies and provide relief to affected individuals.

### Understanding allergies

Before delving into the clinical diagnosis of allergies, it is essential to understand what allergies are. Allergies are abnormal immune responses triggered by exposure to harmless substances, known as allergens. When an allergic individual comes into contact with an allergen, their immune system overreacts, leading to a range of symptoms, such as itching, sneezing, coughing, wheezing, skin rashes, or even life-threatening anaphylaxis.

### Clinical history and physical examination

A comprehensive clinical history and physical examination are the first steps in diagnosing allergies. The healthcare provider will inquire about the patient's symptoms, their duration, and possible triggers. They will also assess the patient's medical history, including any family history of allergies or other related conditions. A thorough physical examination can reveal signs such as skin rashes, nasal congestion, or wheezing, which can aid in the diagnostic process.

### Allergy testing

Allergy testing is a crucial component of clinical diagnosis, helping to identify specific allergens responsible for an individual's allergic reactions. Skin tests and blood tests are the two main types of allergy testing.

**Skin tests:** Skin prick tests are commonly used to diagnose allergies. Small amounts of allergen extracts are placed on the skin, typically on the forearm or back. The skin is then pricked with a tiny needle, allowing the allergen to enter the body. If the patient is allergic to the specific allergen, a localized reaction, such as redness, swelling, or itching, will occur within 15-20 minutes. This test is safe and provides quick results.

**Blood tests:** Blood tests, such as the specific IgE test, measure the levels of allergen-specific antibodies in the blood. A blood sample is taken and analyzed for the presence of immunoglobulin E (IgE) antibodies, which are produced in response to allergens. Elevated levels of allergen-specific IgE antibodies indicate sensitization to particular allergens. Blood tests are particularly useful when skin testing is not feasible, such as in cases of severe skin conditions or when the patient is taking medication that interferes with skin test results.

### Elimination diet and food challenges

For individuals suspected of having food allergies, an elimination diet and food challenges can help confirm the diagnosis. In an elimination diet, the patient avoids consuming suspected food allergens for a specified period. If symptoms subside during the elimination phase and recur upon reintroduction of the allergen, a diagnosis of a food allergy is likely. Food challenges involve supervised reintroduction of the suspected food allergen in a controlled medical setting to assess the allergic response.

### Clinical relevance and treatment

Accurate clinical diagnosis of allergies is crucial for several reasons. First, it helps individuals identify specific allergens, allowing them to avoid triggers and reduce the frequency and severity of allergic reactions. Second, it guides healthcare professionals in developing personalized treatment plans, which may include allergen avoidance, medication, or immunotherapy.

Allergen-specific immunotherapy, commonly known as allergy shots, is a long-term treatment option for certain allergies. It

**Correspondence to:** Hitoshi Iwamoto, Department of Kidney Transplantation Surgery, University of Bologna, Bologna, Italy, E-mail: hitoshiwam@gmail.com

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involves gradually exposing the individual to increasing amounts of the allergen to desensitize their immune system. This

treatment can significantly reduce allergy symptoms and, in some cases, provide long-lasting relief.