

Chapter 4 Immunity

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C.J., a 19-year-old, has a history of being allergic to bee stings, which seems to get worse during the summer months. After a weekend camping trip, she developed difficulty breathing and needed to seek care for these symptoms, which were diagnosed as anaphylaxis. Think about which clinical model is most related to this process. From your reading related to inflammation and immune function, Answer the following questions:

*(Write down your source and page number for your answers so you can use it as a study guide.)*

**1. What anatomic problem would most likely lead to difficulty breathing as a consequence of an allergy? (Juliana)**

When a patient experiences anaphylaxis, there are usually feelings of chest tightness, wheezing, shortness of breath, and labored breathing. These are a result of bronchospasms/bronchoconstriction (narrowing of the bronchioles) due to vascular shock. Difficulty breathing can also be attributed to swelling and inflammation of the tongue and throat. (Braun, Anderson p.82)

**2 How would the immune system respond? (Teresa)**

When the allergen (possibly from a bee sting) is first introduced into the body, the antigens from the allergen are recognized by the antibody (IgE). IgE then binds to mast cells on the skin which causes the degranulation of the mast cells. Following degranulation, mast cells release histamine and leukotrienes which are responsible for vasodilation and bronchoconstriction respectively. The histamine-mediated vasodilation and increased vascular permeability cause increased blood flow/inflammation. (Braun, Anderson pg. 82)

**3. Why is this a chronic problem? (Kelsey)**

A chronic inflammatory response is an altered inflammatory response due to unrelenting injury whereas an acute inflammatory response is an expected body response to injury. Based on this it is clear that anaphylaxis is a chronic response because having difficulty breathing is not an expected response to a bee sting. This is also considered a chronic response because there is a recurrent state of inflammation that lasts several weeks or longer. If this were an acute problem it would clear up within a few weeks, but since she has a history of being allergic to bee stings, we can classify her anaphylaxis as a chronic problem (Braun, 34, 48).

# Pathophysiology Case Studies

**Patrick Vollmar**



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