

Chapter 4 Immunity

Group Members: Valerie Aquije, Teresa Coppola, Juliana Fermin, Kelsey Lamelza, Sylvia Mischel, Jess Philipp, Neal Stephens

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).

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Physiology Linda S. Costanzo,2006 BRS Physiology Cases and

Problems Second Edition includes 56 case based problems and questions that encourage medical students to integrate problem solve and think critically Organized by body system each chapter provides case studies questions and problems followed by complete explanations and solutions including diagrams graphs and charts The book contains most relevant medical physiology and pathophysiology information and integrates complex information across organ systems It is helpful for traditional course material and a valuable tool for a clinical vignette review in preparation for the USMLE Step 1 exam This revised and updated edition includes new cases and more illustrations

Cardiopulmonary Pathology and Pathophysiology Case Studies Richert E. Goyette,1976

Clinical Exercise Electrocardiography Shel Levine,Brian J. Coyne,Lisa Cooper Colvin,2015-02-13 Clinical Exercise Electrocardiography addresses the needs of exercise physiologists working in a clinical setting and highlights static interpretation and rhythm strips and 12 leads Not only does it include the traditional basic electrocardiography ECG arrhythmia myocardial infarction and pacemaker chapters it also provides easy to read chapters on cardiac pathophysiology cardiovascular testing procedures cardiac pharmacology and structural health disease and inflammatory processes The authors also address the differences in ECG interpretation in women children and athletes and examine the use of ECGs in exercise stress testing situations

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