

- B2. How does HLA relate to MHC in immune physiology?
- B3. Why is it important to understand the "HLA phenotypes" of the individuals in this case?
- B4. From what you know about the structure of an antibody, explain how an IgE can be "peanut-specific."
- B5. One way to test for an allergy is to mix a specific allergen with basophils and mast cells from a patient and look for "degranulation." What is occurring when these cells degranulate? How does this become a positive test for a specific allergy?
- B6. Why were the patients put on an immunosuppressive therapy after their transplantations?

C. Discussion

The transfer of allergen-specific donor lymphocytes is a likely possibility.... The production of IgE by B cells depends on the presentation of allergens by antigen-presenting cells and on cooperation between B cells and regulatory T-helper lymphocytes of the Th2 type. In our patient there may have been transfer of peanut-specific IgE-producing B cells or of peanut-specific Th2 lymphocytes that induced the recipient's B cells to produce peanut-specific IgE.

Questions

- C1. Briefly describe the role of B cells and T-helper lymphocytes in immune physiology.
- C2. What is an "antigen-presenting cell" and what role does this type of cell play in an immune response?
- C3. Explain the interaction that occurs between a T-helper lymphocyte and a B cell when the B cell is being induced to produce peanut-specific IgE. In your explanation, explain the role that the peanut allergen plays in this interaction.
- C4. In immediate hypersensitivity, the initial exposure to an allergen usually does not produce any symptoms. The symptoms, such as those involved in anaphylaxis, usually appear in the second exposure. What events are occurring during this initial exposure that sensitizes a person to an allergen. In your description include the role of B cells, T cells, IgE, mast cells, basophils and the allergen.

Passive transfer of donor IgE is unlikely, because the half-life of IgE is only a few days, whereas the allergic reaction occurred three months after transplantation. However, we cannot rule out the possibility that donor IgE bound to the recipient's mast cells and basophils could have persisted for more than a few days.

Questions

- C5. Describe how IgE binds and reacts with basophils and mast cells.
- C6. As described in question C4, the initial exposure to an allergen usually does not produce any symptoms. The symptoms usually appear in the second exposure. What events are occurring during this second exposure? In your description include the role of IgE, basophils, mast cells, and the allergen.

It is relevant that the allergy was transferred from the liver-kidney transplant, but not from the pancreas-kidney transplant. Pluripotent hematopoietic stem cells and dendritic cells are known to be normally resident in the liver. These passenger cells can migrate from the graft to the recipient's lymphoid organs, and multilineage hematopoiesis derived from donor cells can persist for several months after liver grafting.

Questions

- C7. Describe the normal physiological role of a "pluripotent hematopoietic stem cell" in human physiology.
- C8. What is happening when the cells you described in C7 undergo "hematopoiesis?"
- C9. Why is it important to note the presence of these cells in the liver when trying to understand the mechanism for how the peanut allergy was transferred to the patient?
- C10. In the introduction, the doctors noted well-documented transfers of allergies when bone marrow was being transplanted. Why is this a common occurrence with this type of transplant?

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