**Teaching unit 9**

**Immunologic tolerance and autoimmunity**

**Questions**

1. Explain the terms immune tolerance and autotolerance. What are the three possible outcomes of the encounter between lymphocytes and a specific antigen and what do they depend on?
2. Central and peripheral tolerance of lymphocytes. The role of CD4+ T lymphocytes in tolerance mechanisms and the onset of autoimmune diseases
3. Central tolerance of T lymphocytes. What is AIRE and what is its role in central T lymphocyte tolerance?
4. Peripheral tolerance of T lymphocytes: anergy
5. Peripheral tolerance of T lymphocytes: deletion
6. Peripheral tolerance of T lymphocytes: suppression
7. Central tolerance of B lymphocytes
8. Peripheral tolerance of B lymphocytes
9. Why do self antigens induce tolerance and foreign ones induce activation?
10. What are autoimmune diseases and what are their basic characteristics? What factors are involved in the pathogenesis of autoimmune diseases?
11. The role of MHC molecules in the development of autoimmune diseases
12. The role of infection in the development of autoimmune diseases