Microbiology Learning Objectives C19 Disorders Associated with the Immune System

- 1. Define hypersensitivity.
- 2. Are all immune responses beneficial?
- 3. What is anaphylaxis?
- 4. Where are mast cells located? Structure and function?
- 5. What form is more dangerous to life: systemic or localized anaphylaxis?
- 6. Define desensitization and blocking antibody. Which antibody types need to be blocked to desensitize a person subject to allergies?
- 7. What is a cytotoxic reaction and how can drugs induce them?
- 8. Describe the basis of the ABO and Rh blood group sytems.
- 9. Explain hemolytic disease of the newborn.
- 10. What is the mechanism of immune complex reactions?
- 11. What is the relationship between the major histocompatibility complex in humans and the human leukocyte antigen complex?
- 12. What immune system cells are involved in the rejection of nonself transplants?
- 13. What is a privileged site? Relate to a transplanted cornea.
- 14. What is a graft-versus-host disease?
- 15. Define: autograft, isograft, allograft, and xenotransplant.
- **16.** How is rejection of a transplant prevented? What cytokine is usually the target of immunosuppressant drugs?
- 17. Describe how the immune system responds to cancer and how cells evade immune responses.
- 18. Give two examples of immunotherapy.
- 19. Is AIDS an acquired or a congenital immunodeficiency?
- 20. What is the primary receptor on host cells to which HIV attaches?

- 21. List two ways in which HIV avoids the host's antibodies.
- 22. Describe the stages of HIV infection.
- 23. What is the effect of the HIV infection on the immune system?
- 24. What are the routes of HIV transmission?
- 25. What is the most common mode, worldwide, by which HIV is transmitted?
- 26. List the current methods of preventing and treating HIV infections.