Chapter 70:

LEARNING OBJECTIVES

On completion of the chapter, the reader will be able to:

1. Identify major indications for the various types of solid-organ transplants.
2. Describe the physiologic consequences associated with kidney, liver, and heart transplantation.
3. Describe the changes in drug metabolism following liver transplantation.
4. Compare and contrast the pharmacology of cardiovascular medications in patients before and following heart transplantation.
5. Explain the mechanisms and risk factors associated with the different types of allograft rejection.
6. Discuss the goals of immunosuppression and the various immunosuppressive strategies utilized.
7. Compare and contrast the mechanism of the different immunosuppressants.
8. Describe the pharmacokinetics of the immunosuppressants.
9. Identify the side effects associated with the different immunosuppressants.
10. Develop a monitoring plan for transplant recipients receiving immunosuppressants.
11. Discuss the differences in renal allograft rejection and calcineurin inhibitor toxicity.
12. Explain the rationale of the major drug interactions with immunosuppressants.
13. List the factors that limit long-term patient and allograft survival following transplantation.
14. Describe the most common complications associated with immunosuppression.
15. Recommend patient-specific drug therapy to reduce morbidity associated with immunosuppression-related complications.