

Modern Blood Banking and Transfusion Practices

Harmening, D

ISBN-13: 9780803626829

Table of Contents

I. Fundamental Concepts

1. Red Blood Cell and Platelet Preservation: Historical Perspectives and Current Trends
2. Basic Genetics
3. Fundamentals of Immunology
4. Concepts in Molecular Biology

II. Blood Groups and Serological Testing

5. The Antiglobulin Test
6. The ABO Blood Group System
7. The Rh Blood Group System
8. Blood Group Terminology and the Other Blood Groups
9. Detection and Identification of Antibodies
10. Pretransfusion Testing
11. Orientation to the Blood Bank Laboratory
12. Other Technologies and Automation

III. Transfusion Therapy-Related Topics

13. Donor Screening and Component Preparation
14. Apheresis
15. Transfusion Therapy
16. Adverse Effects of Blood Transfusion
17. Cellular Therapy

18. Transfusion-Transmitted Diseases
19. Hemolytic Disease of the Newborn and Fetus (HDFN)
20. Autoimmune Hemolytic Anemias

IV. **Leukocyte Antigens and Parentage Testing**

21. The HLA System
22. Relationship Testing

V. **Quality and Compliance Issues**

23. Quality Management
24. Utilization Management
25. Transfusion Safety and Federal Regulatory Requirements
26. Informational Systems
27. Legal and Ethical Considerations

VI. **Future Trends**

28. Tissue Banking: A New Role for the Transfusion Service

Appendices (Online at *DavisPlus*)

Polyagglutination

Procedures