

CONTENTS

Foreword	vii
Introduction	1
Transfusion Review Process—Transfusion Options	3
Deciding Whether or Not to Transfuse Allogeneic Blood	3
Transfusion Thresholds	3
Perioperative Assessment of the Surgical Patient	4
Intraoperative Techniques to Reduce Allogeneic Transfusion	5
Postoperative Strategies to Minimize Allogeneic Transfusion	7
Massive Transfusion	8
Blood Utilization	8
The Transfusion Review Process	9
Development of Facility-Specific Transfusion Practice Guidelines	10
Blood Utilization Review Process	11
Monitoring of Physician Ordering and Transfusion Effectiveness	11
Evaluation of Processes Involved in the Preparation, Dispensing, and Administration of Blood Components	12
Data Collection and Quality Improvement	13
Auditing of Blood Utilization	14
Types of Review	14
Prospective Review	15
Concurrent Review	17
Retrospective Review	17
Peer Review	18
Using Audit Results	19
Evaluating Laboratory and Clinical Outcomes	19
Reporting Audit Results	20
Reviewing Blood Ordering Practices	21
Evaluating Pretransfusion Practices	24

Evaluating Blood Administration Practices	24
Evaluating and Reporting Adverse Effects of Transfusion	25
Transfusion Audit Criteria	26
Criteria for Selected Blood Components	27
Red Blood Cells	27
Platelets	29
Plasma	30
Cryoprecipitated Antihemophilic Factor	32
Granulocytes	33
Criteria for Specially Modified Blood Components	33
Leukocyte-Reduced Components	34
Cytomegalovirus-Reduced-Risk Cellular Components	36
Irradiated Blood Components	37
Washed Blood Components	38
Volume-Reduced Blood Components	38
Frozen-Thawed-Deglycerolized RBCs	39
HLA-Matched and Crossmatched Platelets	39
Criteria for Autologous Transfusion	40
Preoperative Donation	40
Intra- and Postoperative Blood Recovery	42
Acute Normovolemic Hemodilution	42
Summary	43
References	43
Suggested Readings	52