

Table of Contents

Preface	xv
About the Editor	xvii
1. The Transfusion Committee: Justification and Functions	1
<i>Amy E. Schmidt, MD, PhD</i>	
Justification	2
Main Functions	5
Challenges	11
References	11
Appendix 1-1. Goal and Functions of the Transfusion Committee	16
Appendix 1-2. Transfusion Policies and Procedures to Be Standardized	19
Appendix 1-3. Strategies for Training and Educating Staff in Transfusion Safety	20
Appendix 1-4. Blood Transfusion Process Assessment Tool (Non-OR Staff)	21
2. The Transfusion Committee: Membership, Organization, and Implementation	23
<i>Amy E. Schmidt, MD, PhD</i>	
Membership	24
Organization of the Transfusion Committee	25
Implementation of a Successful Meeting	26
Process Improvement	31
Conclusion	32
References	32
Appendix 2-1. Sample Agenda for Transfusion Committee Meetings	34
Appendix 2-2. Sample Blood Usage Review	36
Appendix 2-3. Sample Transfusion Committee Blood Usage Report	37

Appendix 2-4. Blood Utilization Review Report Form	41
Appendix 2-5. Mistransfusions and Near-Misses Report Template	42
3. The Role of Accrediting Organizations	43
<i>Matt Hiskey, MD</i>	
AABB	44
CAP.	45
Summary.	48
References.	48
4. Multidisciplinary Composition of the Transfusion Committee	51
<i>Nathan McLamb, MD, and George J. Despotis, MD</i>	
Areas of Representation.	52
Summary of Rationale for a Multidisciplinary Composition	61
References.	62
5. The Role of the Blood Collection Center	67
<i>Mariam Ratiani, MD, and Dan Waxman, MD</i>	
Models of Participation	68
Benefits to Hospitals	69
Benefits for Both the Hospital and the Blood Center	74
Challenges for Blood Centers	77
Summary.	78
References.	79
Appendix 5-1. Example of an Announcement Regarding New Products	80
6. Blood Utilization Review	81
<i>Stephanie Bates, MD</i>	
Introduction to Decision-Making and System Design	82
Metrics	83
Elements of Effective Blood Utilization Review	86
Structure and Process of Blood Utilization Review	87
Collaborative Case Review	93
Clinical Decision Support	94

Summary	95
References	96
7. Quality Management and Tools	99
<i>Ayda Javanbakht, MD; Sarah K. Grewal, DO, MPH; and H. Cliff Sullivan, MD</i>	
Transfusion Service Work Processes	100
Blood Utilization Management and Transfusion Service Work	104
Patient Blood Management	105
Quality Measurements	106
Quality Tools	107
Quality Improvement	115
Summary	117
References	117
Appendix 7-1. Suggested Measures of Process Performance for Inventory Management	119
Appendix 7-2. Suggested Measures of Process Performance for Patient Testing	121
Appendix 7-3. Suggested Measures of Process Performance for Selected QSEs	123
8. Transfusion Reaction Oversight	125
<i>Sarah Kathryn Hartman, MD</i>	
Regulatory Agencies and Accreditation Organizations	127
Basic Elements of Transfusion Reaction Oversight	131
Summary	132
References	133
Appendix 8-1. Sample Quality Indicators for Tracking Adverse Events	139
9. Patient Blood Management: Introduction to Principles and Program Implementation	141
<i>Phuong-Lan Nguyen, MD; Christine Cahill, RN; and Majed Refaai, MD</i>	
The Evidence-Based Case for Patient Blood Management	142
Major Elements of PBM	143

Initiating a Patient Blood Management Program	151
Conclusion	155
References.	156
10. The Transfusion Committee’s Role in Blood Management . . .	159
<i>Nanci Fredrich, RN, BSN, MM, and Angela Treml, MD</i>	
The Transfusion Committee and Change Management	160
The Transfusion Committee and Patient Blood Management Activities	161
Summary.	170
References.	170
11. Bloodless Medicine.	173
<i>Katharine A. Marsden, MD, and Ian M. Harrold, MD</i>	
Common Reasons for Use of Bloodless Medicine	174
General Strategies for Bloodless Medicine.	175
Conclusion	184
References.	185
12. Transfusion Guidelines: Development and Impact on Patient Blood Management.	191
<i>E. Alexander Dent, MD; Sarah K. Grewal, DO, MPH; and H. Cliff Sullivan, MD</i>	
Better Patient Blood Management through Transfusion Guidelines.	192
What Is the Evidence and Why Is It Important?	193
Challenges to Changing Physician Practice	196
Implementing Clinical Practice Guidelines	198
Electronic Tools in the Implementation of Transfusion Guidelines.	207
Summary.	212
References.	212

13. Global Perspectives on Hospital Transfusion Committees. . . . 219

Kaycie K. Atchison, MCR, MLS(ASCP)^{CM}; Petro-Lize Wessels, BMedSc, MBChB; Cheuk-Kwong Lee, MD; Karin van den Berg, MB ChB, PhD; and Quentin G. Eichbaum, MD, PhD, MPH, MMHC, MFA, MA, MSc, MMed, FCAP, FASCP

Committee Structure	220
Variations between HICs and LMICs	224
Urban vs Rural Settings	225
Transfusion Committees in Private vs Public Hospital Systems	226
Adherence to Regulatory Requirements	226
Challenges and Limitations	229
Conclusion	230
References	230

14. Transfusion of Neonates and Pediatric Patients: Role of the Transfusion Committee 233

Maha Al-Ghafry, MD; Nibal Harb, MS, MT, SBB(ASCP)^{CM}; and Cassandra D. Josephson, MD

Role and Goals	234
Committee Members and Stakeholders	234
Special Pediatric Populations	235
Processing of Blood Components	236
Transfusion Guidelines and Practices	237
Blood Utilization	241
Optimization of Pediatric Transfusion Practices	241
Transfusion Committee Agenda Items	242
Conclusion	244
References	244

Index 247