Contents

List of Contributors, viii
Foreword, xii

Part 1 General Introduction

1 Introduction, 3
   René R.P. de Vries

2 Hemovigilance: A Quality Tool for the Blood Transfusion Chain, 5
   René R.P. de Vries

3 Concepts and Models, 12
   René R.P. de Vries and Jean-Claude Faber

Part 2 Hemovigilance of the Blood Transfusion Chain
(Blood Establishment and Hospital)

Section 2.1: Setting up a Hemovigilance System

4 Setting Up or Consolidating a System for Donor Hemovigilance at the Level of
   a Blood Establishment, 21
   Johanna Wiersum-Osselton, Wim de Kort, Tanneke Marijt-van der Kreek,
   and Jeroen de Wit

5 Preparation of Blood Components, 36
   Tomislav Vuk

6 Establishment of Hemovigilance for the Testing, Storage, Distribution,
   Transport, and Issuing of Blood and Blood Components: The Example of Greece, 52
   Constantina Politis

7 Medical Decision, Ordering, Administration of Component, and Monitoring of
   the Patient, 61
   Mickey B.C. Koh, Ramir Alcantara, Mark Grumbridge, and Ai Leen Ang

Section 2.2: How the System Works

8 Blood Donation: An Approach to Donor Vigilance, 77
   Peter Tomasulo, Madhav Errajumla, and Hany Kamel

9 Preparation of Blood Components, 99
   Erhard Seifried, Reinhard Henschler, Juergen Luhm, Thea Mueller-Kuller,
   Hans-Ulrich Pfeiffer, Walid Sireis, and Markus M. Mueller
Contents

10 Testing, Issuing, and Transport of Blood Components, 113
   Constantina Politis

11 Clinical Activities: Medical Decision-making, Sampling, Ordering Components,
   Administration, and Patient Monitoring, 126
   Clare Taylor

Part 3 National or Regional Hemovigilance Systems

12 The French Hemovigilance Network: From the Blood Scandal to Epidemiologic
   Surveillance of the Transfusion Chain, 147
   Philippe Renaudier

13 The Japanese Hemovigilance System, 159
   Hitoshi Okazaki, Naoko Goto, Shun-ya Momose, Satoru Hino, and Kenji Tadokoro

14 Setting up a National Hemovigilance System: SHOT, 168
   Hannah Cohen and Lorna M. Williamson

15 The Dutch Hemovigilance System: Transfusion Reactions in Patients (TRIP), 180
   Martin R. Schipperus, Johanna Wiersum-Osselton, Pauline Y. Zijlker-Jansen, and
   Anita J.W. van Tilborgh-de Jong

16 Regulatory, Public Health, and International Aspects of Hemovigilance
   in Canada, 191
   Peter R. Ganz and Jun Wu

17 Setting up and Implementation of the National Hemovigilance System in Italy, 204
   Giuliano Grazzini and Simonetta Pupella

18 The Australian Hemovigilance System, 209
   Erica M. Wood, Lisa J. Stevenson, Simon A. Brown, and Christopher J. Hogan

19 Biovigilance in the United States, 220
   D. Michael Strong, Barbee Whitaker, Matthew J. Kuehnert, and Jerry A. Holmberg

20 Arab Hemovigilance Network, 226
   Salwa Hindawi, Magdy Elekiaby, and Gamal Gabra

Part 4 Hemovigilance at the International Level

21 Hemovigilance in the European Community, 235
   Jean-Claude Faber

22 International collaboration, 253
   Paul F.W. Strengers

23 Hemovigilance in Developing Countries, 260
   Jean-Claude Faber

Part 5 Achievements

24 Achievements Through Hemovigilance, 281
   Jean-Claude Faber and Fátima Nascimento
Part 6 Developments

25 Vigilance of Alternatives for Blood Components, 305
   Dafydd Thomas

26 Surveillance of Clinical Effectiveness of Transfusion, 322
   Brian McClelland and Katherine Forrester

27 Biovigilance, 326
   Jerry A. Holmberg, Matthew J. Kuehnert, and D. Michael Strong

Appendices

Appendix A Glossary, 343

Appendix B Proposed standard definitions for surveillance of non infectious adverse transfusion reactions, 351

Appendix C Standard for surveillance of complications related to blood donation, 360

Index, 369