Contents

Preface .................................................................................................................... vii
Contributors ......................................................................................................... xiii

PART I INTRODUCTORY CHAPTERS

1 Overview of Hemostasis and Thrombosis and Contribution of Laboratory Testing to Diagnosis and Management of Hemostasis and Thrombosis Disorders ......................................................................................................... 3
   Roslyn A. Bonar, Giuseppe Lippi, and Emmanuel J. Favaloro

2 Preanalytical Issues in Hemostasis and Thrombosis Testing .............................. 29
   Giuseppe Lippi and Emmanuel J. Favaloro

3 The Interface between Immunotransfusion and Hemostasis and Thrombosis Testing ................................................................. 43
   Massimo Franchini

PART II ROUTINE COAGULATION ASSAYS

4 Optimizing the Verification of Mean Normal Prothrombin Time (MNPT) and International Sensitivity Index (ISI) for Accurate Conversion of Prothrombin Time (PT) to International Normalized Ratio (INR) ............... 59
   Emmanuel J. Favaloro

5 Performance of Activated Partial Thromboplastin Time (APTT): Determining Reagent Sensitivity to Factor Deficiencies, Heparin, and Lupus Anticoagulants ................................................................................ 75
   Geoffrey Kershaw

6 Performance and Interpretation of Mixing Tests in Coagulation ....................... 85
   Geoffrey Kershaw

7 D-Dimer Testing: Laboratory Aspects and Current Issues ................................ 91
   Jecko Thachil, Giuseppe Lippi, and Emmanuel J. Favaloro

8 Determination of Fibrinogen and Thrombin Time (TT) ................................... 105
   Anetta Undas

PART III THROMBOPHILIA-RELATED CHAPTERS

9 An Overview of Thrombophilia and Associated Laboratory Testing .............. 113
   Martina Montagnana, Giuseppe Lippi, and Elisa Danese

10 Laboratory Testing for Activated Protein C Resistance (APCR) ................. 137
   Soma Mohammed and Emmanuel J. Favaloro
11 Assessment of Hereditary Thrombophilia: Performance of Protein C (PC) Testing
Richard A. Marlar and Jana N. Gausman

12 Assessment of Hereditary Thrombophilia: Performance of Protein S (PS) Testing
Richard A. Marlar and Jana N. Gausman

13 Assessment of Hereditary Thrombophilia: Performance of Antithrombin (AT) Testing
Jana N. Gausman and Richard A. Marlar

14 Lupus Anticoagulant Testing: Diluted Russell Viper Venom Time (dRVVT)
Vittorio Pengo, Elisa Bison, Alessandra Banzato, Giacomo Zoppellaro, Seena Padayattil Jose, and Gentian Denas

15 Lupus Anticoagulant Testing: Activated Partial Thromboplastin Time (APTT) and Silica Clotting Time (SCT)
Armando Tripodi and Veena Chantarangkul

16 Solid Phase Immunoassay for the Detection of Anticardiolipin Antibodies
Rohan Willis, Elizabeth Papalardo, and E. Nigel Harris

17 Solid Phase Immunoassay for the Detection of Anti-β2 Glycoprotein I Antibodies
Rohan Willis, Elizabeth Papalardo, and E. Nigel Harris

18 Measuring Direct Oral Anticoagulants
Robert C. Gosselin and Jonathan Douxfils

19 Laboratory Testing Protocols for Heparin-Induced Thrombocytopenia (HIT) Testing
Kun Kan Edwin Lau, Soma Mohammed, Leonardo Pasalic, and Emmanuel J. Favaloro

Part IV Bleeding Disorders

20 One-Stage Factor VIII Assays
Elizabeth Duncan and Susan Rodgers

21 Chromogenic Factor VIII Assays for Improved Diagnosis of Hemophilia A
Susan Rodgers and Elizabeth Duncan

22 Assessment of Factor XIII
László Muszbek, Éva Katona, and Adrienne Kerényi

23 Detection and Measurement of Factor Inhibitors
Geoffrey Kershaw

24 Platelet Function Tests: Preanalytical Variables, Clinical Utility, Advantages, and Disadvantages
Anne-Mette Hvas and Erik Lerkevang Grove

25 Platelet Function Analyzed by Light Transmission Aggregometry
Anne-Mette Hvas and Emmanuel J. Favaloro
Hemostasis and Thrombosis
Methods and Protocols
Favaloro, E.J.; Lippi, G. (Eds.)
2017, XV, 565 p. 93 illus., 49 illus. in color., Hardcover
ISBN: 978-1-4939-7194-7
A product of Humana Press