

Contents

Contributors, vii

Preface, xiii

Foreword, xv

PART I Concepts in Platelet Physiology, Function, and Measurement

- 1 Platelet physiology and the role of the platelet in ischemic heart disease, 3
Robert F. Storey
- 2 Laboratory assessment of platelet function and the effects of antiplatelet agents, 15
Alan D. Michelson, A.L. Frelinger, III

PART II Pharmacology of Oral Antiplatelet Agents

- 3 Cyclooxygenase inhibitors, 33
Nina Chetty Raju, John W. Eikelboom
- 4 Aspirin response variability and resistance, 47
Wai-Hong Chen, Daniel I. Simon
- 5 P2Y₁₂ inhibitors: Thienopyridines and direct oral inhibitors, 59
Jean-Philippe Collet, Boris Aleil, Christian Gachet, Gilles Montalescot
- 6 Thienopyridine response variability and resistance, 77
Udaya S. Tantry, Thomas A. Suarez, Paul A. Gurbel

PART III Pharmacology of Intravenous Antiplatelet Agents

- 7 Pharmacology of intravenous glycoprotein IIb/IIIa antagonists, 97
James C. Blankenship, Peter B. Berger

- 8 Intravenous P2Y₁₂ inhibitors, 111
Steven P. Dunn, Steven R. Steinhubl
- 9 Antiplatelet effects of thrombin inhibitors and fibrinolytic agents, 125
Nicolai Mejevoi, Anjum Tanwir, Marc Cohen

PART IV Clinical Use of Antiplatelet Agents in Cardiovascular Disease

- 10 Antiplatelet therapy in acute coronary syndrome without ST elevation, 145
Christian W. Hamm
- 11 Antiplatelet therapy in ST-elevation myocardial infarction, 164
Michelle O'Donoghue, Marc S. Sabatine
- 12 Antiplatelet therapy in chronic coronary artery disease, 178
Kamran I. Muhammad, Deepak L. Bhatt
- 13 Antiplatelet therapy in peripheral arterial disease, 196
Esther S. Kim, Heather L. Gornik
- 14 Clinical use of antiplatelet agents in cardiovascular disease: cerebrovascular diseases, 215
Larry B. Goldstein

PART V Special Circumstances

- 15 Antiplatelet therapy and coronary bypass surgery: risks and benefits, 233
A. Burdess, N.L. Cruden, K.A. Fox
- 16 Management of antiplatelet therapy for non-cardiac surgery, 251
Nisheeth Goel, John F. Canales, James J. Ferguson
- 17 Antiplatelet therapy and coronary stents, 265
Alanna Coolong, Laura Mauri

Index, 281

Author Disclosure Table, 291