1. Record Nr. UNINA9910819754603321

Titolo	Antiplatelet therapy in cardiovascular disease / / edited by Ron Waksman, Paul A. Gurbel, Michael A. Gaglia, Jr
Pubbl/distr/stampa	Chichester, West Sussex, United Kingdom : , : John Wiley & Sons, , 2014 ©2014
ISBN	1-118-49402-4 1-118-49398-2 1-118-49401-6
Descrizione fisica	1 online resource (349 p.)
Disciplina	616.1/061
Soggetti	Cardiovascular system - Diseases Cardiovascular system - Diseases - Prevention
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Antiplatelet Therapy in Cardiovascular Disease; Copyright; Contents; List of Contributors; Foreword; Preface; Section I Platelet Biology and Pathophysiology; 1 Platelet Pathophysiology and its Role in Thrombosis; Role of platelets during initiation of atherosclerosis and plaque formation; Role of platelets in thrombosis; References; 2 Platelet Receptors and Drug Targets: COX-1; Structure, expression, and catalytic activity of platelet COX-1; Functional role of platelet COX -1; Genetic polymorphisms of COX-1 and COX-2 expression in platelets Platelet COX-1 as a target for antithrombotic therapyInteraction between aspirin and naNSAIDs at the level of platelet COX-1; In vitro and in vivo evidence for aspirin/naNSAID interaction; Concluding remarks; References; 3 Platelet Receptors and Drug Targets: P2Y12; P2 receptors; Roles of adenine nucleotides in platelet function; P2Y12; Conclusions; References; 4 Platelet Receptors and Drug Targets: GP IIb/IIIa; Introduction; Biology of the receptor; Glycoprotein IIb/IIIa receptor in platelet physiology; Platelet aggregation phase; "Inside-out" and "outside-in" GPIIb/IIIa signaling phenomenon Glycoprotein IIb/IIIa receptor and thrombus formationGlycoprotein IIb/IIIa receptor antagonists; Intravenous versus oral preparations:

clinical aspects; Acknowledgment; References; 5 Platelet Receptors and Drug Targets: PAR1, Collagen, vWF, Thromboxane, and Other Novel Targets; Introduction; Protease-activated receptor 1 (PAR1); References; 6 Role of Inflammation and Hypercoagulability in Thrombosis; References; Section II Platelet Function Tests; 7 Light Transmission Aggregometry; Technique; References; 8 Vasodilator-Stimulated Phosphoprotein (VASP) Assay; Introduction; The VASP index assay VASP index and clinical eventsAlteration of antiplatelet therapy based on the VASP index; VASP index and new oral antiplatelet agents; Conclusions; References; 9 VerifyNow P2Y12 and Plateletworks Assays; Introduction; Verifynow P2Y12; Plateletworks; Validity of the test in measuring antiplatelet effect and its association with clinical outcomes; Conclusion; References; 10 Multiplate Analyzer; Historical background; Principles of the Multiplate® analyzer; Advantages; Disadvantages; Clinical studies in cardiovascular medicine; Studies in cardiovascular surgery
Consensus definitions and cutoff values concerning platelet reactivitySummary; Acknowledgment; References; 11 Shear Stress-Based Platelet Function Tests; PFA-100; IMPACT-R; References; 12 Thrombelastography and Other Novel Techniques; Novel techniques; T2 magnetic resonance (T2MR); Shear-induced platelet aggregation assays; References; Section III Antiplatelet pharmacology; 13 Aspirin; Mode of antiplatelet action; Time dependency of inhibition of platelet function by aspirin; Dose-dependent inhibition of platelet function by aspirin; Negative interactions with other drugs
Positive interactions with other drugs

Sommario/riassunto

Edited by one of the world's leading interventional cardiologists and educators, this new book is created with an eye on giving the reader a solid, practical and clinically-focused understanding of this important class of drugs, from basic science to a clear-headed discussion of complex topics such as combination therapies, drug-drug interactions, and platelet resistance. This important new book: Begins with a concise but thorough discussion of platelet biology and pathophysiology so that readers understand how these therapies work and why they can also produce such a varied