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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 events Alteration 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 reactivity Summary; 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
