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New Insights into Antithrombotic Therapy for Cardio- and Cerebrovascular Disease: From Molecular Mechanisms to Clinical Application

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Message from the Guest Editors

Atherosclerotic disease and its thrombotic complication are the pathophysiological substrate underlying several clinical conditions, such as acute and chronic coronary syndrome (ACS and CCS, respectively), stroke, and peripheral artery disease.

Pharmacological modulation of both components of thrombosis, the coagulation cascade and platelet activation, is of great clinical importance. Several clinical trials have clearly shown the efficacy of anticoagulation and/or anti platelet aggregation in different thrombotic disorders. However, real-world practice clearly indicated that antithrombotic strategies need to be personalized according to patient characteristics, such as age, concomitant diseases already requiring antithrombotic drugs or at risk for bleeding.

This issue will focus on current hurdles of antithrombotic treatments in patients with cardio- and cerebrovascular diseases, starting from the molecular mechanisms involved, proposing practical solutions to compelling clinical scenarios using a pathophysiology-oriented approach on the basis of current clinical evidence.