

Preface

On Topaz

Forward

Igor Palacios

1. Histopathology of cardiovascular thrombus
Hiroyuki Jinnouchi and Renu Virmani
2. Pathology of Arterial Thrombosis: Characteristics and Thrombus Types
George S. Abela
3. Fibrin clot structure and function: a novel risk factor for arterial and venous thrombosis and thromboembolism
Robert Ariens and Stephen R. Baker
4. The role of platelets in the pathophysiology of atherosclerosis and its complications
Albert Ferro, Kerry Layne and Gabriella Passacquale
5. Mathematical models of thrombus formation and fibrinolysis
Karin Leiderman, Brittany Bannish, Michael A. Kelley and Ada Palmisano
6. Animal models of thrombosis
Gemma Vilahur
7. Imaging Modalities for Detection and Treatment of Cardiovascular Thrombus
Claudia A. Martinez, Rodrigo Mendirichaga and Joel Fishman
8. Utilization of MRI/MRA for cardiac thrombus
Rhoda Brosnan
9. Acute Myocardial Infarction: STEMI and NSTEMI
Peter O’Kane and Kalpa De Silva
10. Acute Coronary Syndrome: thrombotic lesions in patients with unstable angina
Ion S. Jovin, Gabriele Cioni and Nayef A. Abouzaki
11. Practical perspectives on the guidelines for management of coronary thrombus
Elliott Smith
12. Thrombus classifications – critical tool for diagnostic and interventional cardiovascular procedures
On Topaz
13. Impact of thrombus burden on myocardial damage in the setting of primary PCI
Massimo Napodano and Antonio Landi
14. The impact of thrombus as a cause and as a result of complicated PCI
Emmanouil S. Brilakis
15. Stent Thrombosis: Early, Late and Very Late
Thomas E. Watts III, Massoud Leesar and Arka Chatterjee
16. STENT THROMBOSIS: IMPLICATIONS ON NEW STENT DESIGNS AND DAPT DURATION
Dean Kereiakes
17. Aspiration catheters & Protection filters
Anthony A. Bavry and Dhruv Mahtta
18. Power sourced mechanical thrombectomy in the management of thrombus-containing atherosclerotic lesions

- On Topaz
19. Dedicated thrombus-containing stent platforms
Ran Kornowski
 20. Dissolution of thrombus with ultrasound: a journey through physics, basic research and clinical utilization
Uri Rosenschein
 21. The role and impact of thrombus in formation and revascularization of chronic total occlusions
On Topaz
 22. Interventions in a spectrum of thrombotic lesions: real life experience in the cardiac catheterization suites of a large size tertiary care center
P.P.T. de Jaegere
 23. Atrial fibrillation : Prevalence, types, and clinical implications
Gregory K. Jones
 24. Acute and chronic pulmonary embolism: perspectives on diagnosis and management
Mordechai Reuven Kramer and Avraham Unterman
 25. Surgical management of cardiovascular thrombotic conditions
Tomas A. Salerno
 26. The spectrum of clinical presentations and management options for the treatment of degenerative atherothrombotic disease of saphenous vein grafts
Haim Danenberg
 27. Prosthetic Heart Valve Thrombosis
Felipe Albuquerque, Eduardo De Marchena and Giselle Baquero
 28. EXPERIMENTAL DESIGNS FOR IN VITRO ASSESSMENT OF VALVE THROMBOSIS
Ali N. Azadani and Danny Dvir
 29. Ventricular Assist Device Thrombosis: Past, Present and Future
Neil Pendril Lewis
 30. Vascular Closure Devices and Thrombosis
Brian Clapp and Matthew James Ryan
 31. Management strategies for thrombosis of major abdominal aortic branches: the superior mesenteric and renal arteries
Mohammed Aladdin
 32. Thrombotic lesions in the lower extremity peripheral arteries: diagnosis and management
Nicolas W. Shammam
 33. Venous Thrombosis
David Hirschl
 34. Revascularization for acute ischemic stroke: contemporary perspectives on the role and yield of thrombolytic therapy and endovascular intervention
Larry B. Goldstein
 35. Treatment Options for Recurrent Thromboembolism in Patients with Cryptogenic Cerebrovascular Events: Medical Therapy versus Device closure or Surgical repair of Patent Foramen Ovale
Andres Pineda and J. Kevin Harrison

36. Left Atrial Appendage Occluders – recent advances and unresolved issues
Michael Glikson and Arwa Younis
37. Thrombophilia – contemporary perspectives
Srikanth Nagalla
38. Infectious diseases and cardiovascular thrombosis
Subhashis Mitra and Daniel Havlichek Jr.
39. Thrombosis in Pregnancy
Michael Lishner and Ron Hoffman
40. The Role of Interventional Cardiology in the Management of Thrombotic Conditions in the Pediatric Population
Satinder K. Sandhu
41. Kawasaki disease – the phenomenon of thrombotic coronary and vascular aneurysms in the young and adults - a Japanese perspective
Takayuki Onishi
42. Thrombus Pharmacotherapy
Sunil V. Rao, Holly L. Humphrey and James Anderson Smith
43. Antithrombotic Treatment in Patients Undergoing Transcatheter Aortic Valve Replacement
Amit Segev and Elad Asher
44. Antifibrinolytics: Pharmacologic Profile and Clinical Utilization
Elizabeth Landrum Michalets
45. The Realm of Drugs, Biological Products, and Supplement Induced Thrombosis and Thromboembolic Risk
Brian Peek, Emily E. Wood and Benjamin Michalove