Table of Contents

List of Contributors.
Preface.

Foreword.

Foreword to the First Edition.

Acknowledgment (First Edition).


1 Principles of Extracranial Ultrasound Examination (Andrei V. Alexandrov, Alice Robinson-Vaughn, Clotilde Balucani & Marsha M. Neumyer).

2 Intracranial Cerebrovascular Ultrasound Examination Techniques (Andrei V. Alexandrov, Marta Rubiera, Paola Palazzo & Marsha M. Neumyer).

3 Anatomy of the Brain’s Arterial Supply (Joel Cure).

Part II Hemodynamic Principles.


5 Practical Models of Cerebral Hemodynamics and Waveform Recognition (Andrei V. Alexandrov).

Part III Criteria for Interpretation.

6 Diagnostic Criteria for Cerebrovascular Ultrasound (Georgios Tsivgoulis, Marsha M. Neumyer & Andrei V. Alexandrov).

Part IV Ultrasound in Stroke Prevention and Treatment.


8 Cardiovascular Risk Factors and Carotid Ultrasound (Tatjana Rundek & Joseph F. Polak).

9 Applications of Functional Transcranial Doppler (fTCD) (Konstantinos Vadikolias & Georgios Tsivgoulis).


11 Ultrasound in Neurocritical Care (Andrew D. Barreto & James C. Grotta).

12 Cerebral Vasospasm after Subarachnoid Hemorrhage (Mark R. Harrigan, David W. Newell & Andrei V. Alexandrov).

13 Intra-Operative TCD Monitoring (Zsolt Garami & Alan B. Lumsden).

14 Intracranial Stenosis (Vijay K. Sharma & K.S. Lawrence Wong).

15 Ultrasound in Acute Stroke: Diagnosis, Reversed Robin Hood Syndrome and Sonothrombolysis (Andrei V. Alexandrov, Robert Mikulik & Andrew Demchuk).

16 Ultrasound and Gaseous Microspheres (Flemming Forsberg & Andrei V. Alexandrov).

17 Neurosonology Pearls (Georgios Tsivgoulis, Clotilde Balucani & Vijay K. Sharma).

Index.