
Contents

1	Introduction	1
	J. B. FIEBACH, P. D. SCHELLINGER	
2	CT as the Current Standard in Stroke Imaging	3
	P. D. SCHELLINGER, J. B. FIEBACH, W. HACKE	
3	Stroke Scales	7
	P. D. SCHELLINGER	
4	Conventional MRI, Diffusion-weighted MRI (DWI) and Apparent Diffusion Coefficient (ADC)	13
	J. B. FIEBACH, P. D. SCHELLINGER, S. HEILAND, K. SARTOR	
5	Perfusion-weighted MRI (PWI)	23
	P. D. SCHELLINGER, J. B. FIEBACH, S. HEILAND, K. SARTOR	
6	The Penumbra and the Mismatch Concept	31
	P. D. SCHELLINGER, J. B. FIEBACH	
7	Stroke MRI and Intracranial Hemorrhage	35
	P. D. SCHELLINGER, J. B. FIEBACH	
8	Feasibility, Practicality and Logistics of a Multisequence Stroke MRI Protocol	45
	P. D. SCHELLINGER, J. B. FIEBACH	
9	Comparison of DWI and CT	49
	J. B. FIEBACH, P. D. SCHELLINGER	
10	Characterization of Hyperacute Ischemic Stroke with Stroke MRI	55
	P. D. SCHELLINGER, J. B. FIEBACH, S. WARACH	
11	Thrombolytic Therapy in Stroke	63
	P. D. SCHELLINGER, W. HACKE	

12	Impact of Stroke MRI on Therapeutic Decision Making	75
	P.D. SCHELLINGER, J.B. FIEBACH, S. WARACH, W. HACKE	
13	Alternative and Future Imaging Prospects	83
	P.D. SCHELLINGER, J.B. FIEBACH, K. SARTOR	
14	The Role of Stroke MRI in Clinical Trials	91
	S. WARACH, P.D. SCHELLINGER	
	References	99
	Subject Index	117