

CONTENTS

1	Stroke: the size of the problem	1
2	Diagnosis of stroke	3
2.1	Pre-hospital stroke care	3
2.2	Stroke mimics	4
2.3	Neuroimaging	9
3	Stroke unit	19
4	Supportive care during the acute phase of stroke	21
4.1	Respiration and oxygenation	21
4.2	Head positioning	22
4.3	Blood pressure	22
4.4	Liquids and electrolytes	25
4.5	Blood glucose	25
4.6	Dysphagia and nutrition	26
4.7	Fever and antibiotics	27
4.8	Bladder functioning	27
4.9	Venous thromboembolism	28
4.10	Delirium	29
4.11	Brain edema	30
5	Ischemic stroke	39
5.1	Revascularization therapies	39
5.2	Early secondary prevention of ischemic stroke or transient ischemic attack	67
6	Worsening neurological deficit in patients with ischemic stroke	87
6.1	Malignant middle cerebral artery syndrome	87
6.2	Cerebellar stroke (acute hydrocephalus)	88
6.3	Posterior circulation ischemic stroke	90
6.4	Lacunar stroke	90
6.5	Hemorrhagic transformation	91
6.6	Early onset seizure	95
7	Intracranial hemorrhage	101
7.1	Non-traumatic parenchymal intracerebral hemorrhage	101
7.2	Non-traumatic intraventricular hemorrhage	113
7.3	Non-traumatic subarachnoid hemorrhage	114
8	Cerebral vein thrombosis	129
9	Neurovascular emergencies with ophthalmic manifestations	147

10 Particular cases	161
10.1 Pediatric neurovascular emergencies	161
10.2 Cerebral vasculitis	167
10.3 Posterior reversible encephalopathy syndrome (PRES)	178
10.4 Infective endocarditis	182
10.5 Carotid web	187
10.6 Transient global amnesia	190
10.7 Spinal cord vascular diseases	193