

## CONTENTS

<i>List of Contributors</i>	<i>page</i> ix
<i>Why This Book Needed to Be Written</i>	xiii
<i>Preface</i>	xix
PART I EARLY RECOGNITION	
1 HIPPOCRATES AND EARLY GREEK MEDICAL PRACTICE	3
2 EARLY GRECO-ROMAN CONTRIBUTIONS	6
3 ISLAMIC AND MIDDLE EASTERN CONTRIBUTIONS	10
PART II BASIC KNOWLEDGE, SIXTEENTH TO EARLY TWENTIETH CENTURIES: ANATOMY, PHYSIOLOGY, AND PATHOLOGY	
4 ANDREAS VESALIUS	21
5 WILLIAM HARVEY: ON THE MOTION OF THE HEART AND BLOOD	25
6 THOMAS WILLIS: ANATOMY OF THE BRAIN AND ITS VASCULATURE	31
7 GIOVANNI MORGAGNI: EMPHASIS ON PATHOLOGY	37
8 APOPLEXY: IDEAS AND CONCEPTS, SEVENTEENTH TO TWENTIETH CENTURIES	42
9 ATLASES	55
10 BRAINSTEM SYNDROMES	64
11 JULES DEJERINE	72
12 ARTERIAL AND VENOUS ANATOMY	81

vi	CONTENTS	
	13 RUDOLF VIRCHOW	93
	14 EARLY MEDICAL AND NEUROLOGICAL TEXTBOOKS	99
	PART III MODERN ERA, MID-TWENTIETH CENTURY TO THE PRESENT	
	TYPES OF STROKE	
	15 CAROTID ARTERY DISEASE	109
	16 LACUNES	119
	17 VERTEBROBASILAR DISEASE	127
	18 ANEURYSMS AND SUBARACHNOID HEMORRHAGE	138
	19 INTRACEREBRAL HEMORRHAGE	157
	20 VASCULAR MALFORMATIONS	167
	21 CEREBRAL VENOUS THROMBOSIS	174
	22 ARTERIAL DISSECTIONS, FIBROMUSCULAR DYSPLASIA, MOYAMOYA DISEASE, AND REVERSIBLE CEREBRAL VASOCONSTRICTION SYNDROME	188
	23 BLOOD DISORDERS	200
	24 STROKE GENETICS	211
	25 EYE VASCULAR DISEASE	226
	26 SPINAL CORD VASCULAR DISEASE	238
	SOME KEY PHYSICIANS	
	27 CHARLES FOIX	251
	28 HOUSTON MERRITT AND CHARLES ARING	260
	29 C. MILLER FISHER	265
	30 LOUIS CAPLAN	280

## CONTENTS

vii

## IMAGING

31 CEREBRAL ANGIOGRAPHY	297
32 COMPUTED TOMOGRAPHY	304
33 MAGNETIC RESONANCE IMAGING	313
34 CEREBROVASCULAR ULTRASOUND	325
35 CEREBRAL BLOOD FLOW, RADIONUCLIDES, AND POSITRON EMISSION TOMOGRAPHY	338
36 CARDIAC IMAGING AND FUNCTION	352
37 STROKE-RELATED TERMS	358
38 EPIDEMIOLOGY AND RISK FACTORS	364
39 DATA BANKS AND REGISTRIES	370
40 PEDIATRIC STROKE	374

## CARE

41 CARE OF STROKE PATIENTS	391
42 NEUROCRITICAL CARE	396

## TREATMENT

43 CLINICAL STROKE TRIALS	413
44 HEPARIN	427
45 WARFARIN	434
46 DIRECT ORAL ANTICOAGULANTS	442
47 ASPIRIN	447
48 OTHER ANTIPLATELETS	455
49 OTHER MEDICAL TREATMENTS	465
50 NEUROPROTECTION	478

viii	CONTENTS	
	51 THROMBOLYSIS	491
	52 TREATMENT OF CEREBRAL VENOUS THROMBOSIS	505
	53 RECOVERY AND REHABILITATION	515
	54 CAROTID ARTERY SURGERY	529
	55 ANGIOPLASTY AND STENTING	541
	56 ENDOVASCULAR TREATMENT OF ACUTE ISCHEMIC STROKE	551
	57 BRAIN ANEURYSM TREATMENT	562
	58 MEDICAL AND SURGICAL TREATMENTS OF INTRACEREBRAL HEMORRHAGE	577
	59 TREATMENT OF VASCULAR MALFORMATIONS	590
	PART IV STROKE LITERATURE, ORGANIZATIONS, AND PATIENTS	
	60 STROKE ORGANIZATIONS, JOURNALS, AND BOOKS	607
	61 PROMINENT STROKE PATIENTS	610
	<i>Index</i>	627