SUBJECT INDEX

Page Numbers in Italic refer to Abstracts

acidosis
Survival after 40 minutes' submersion without cerebral sequelae, 97

acute confusional states
Acute confusional states with right middle cerebral artery infarctions, 640

adenosine
Dilatory action of adenosine on pial arteries of cats and its inhibition by theophylline, 645
Effects of ATP on platelets: evidence against the central role of released ADP in primary aggregation, 198
Relationship between adenosine concentration and oxygen supply in rat brain, 93

adrenalin
Hypothalamo-pituitary-adrenal function following subarachnoid hemorrhage, 102

anastomoses
Carotid-anterior cerebral artery anastomosis. Case report, 634
Congenital absence of bilateral vertebral arteries with occipital-basilar anastomosis, 202
Regional cerebral blood flow studies following superficial temporal-middle cerebral artery anastomosis, 423
Spontaneous cerebral revascularization in a patient with STA-MCA anastomosis. Case report, 424
Stroke: what's new? Cerebral revascularization, 536

amyotrophy
Hemiplegic amyotrophy. Muscle and motor point biopsy study, 525

anesthesia
Evaluation of hypocarbia and hypercarbia during carotid endarterectomy, 451
Neurosurgical anesthesia, 205

anus
Anatomical features of the straight sinus and its tributaries: Clinical correlations, 420
Anatomical mapping of the cerebral neri vasorum in the human brain, 316
Anatomical variations in the origin of the posterior cerebral artery demonstrated by carotid angiography, and their significance in the direct surgical treatment of posterior communicating aneurysms, 100
Angiographic study of the normal cerebral circulation. II. The vertebrobasilar system, 638
Anterior cerebral artery: 1. Anatomo-radiological study of its cortical territories, 530
Capillaries in the subarachnoid space, 645
Microsurgical anatomy of the anterior cerebral-anterior communicating-Heubner artery complex, 10
Surgical anatomy of the proximal anterior cerebral artery, 634

anterior communicating aneurysms
Anatomical variations in the origin of the posterior cerebral artery demonstrated by carotid angiography, and their significance in the direct surgical treatment of posterior communicating aneurysms, 100
Aneurysm of the posterior inferior cerebellar artery of a 5-year-old girl, 428
Aneurysm of the upper cervical portion of the internal carotid artery due to exogenous focal arteritis, 319
Aneurysms of the distal anterior cerebral artery, 421
Bilateral carotid aneurysms secondary to radiation therapy, 202
Carotid-ophthalmic aneurysms, 530
Cerebral aneurysms of traumatic origin, 311
Cerebral vasospasm and ruptured intracranial aneurysm, 94
Complete embolization of artery of Adamkiewicz to obliterate an intramedullary arteriovenous aneurysm. Case report, 316
Concidental multiple asymptomatic intracranial aneurysms and symptomatic carotid stenosis, 504
Concurrence of iris aneurysms and cerebral hemorrhage in hypertensive rabbits, 525
Congoophilic angiopathy complicated by surgery and massive hemorrhage: a light and electron microscopic study, 428
Effect of CSF removal on CBF and metabolism in patients with stroke and Alzheimer's disease, 8
Enzymatic destruction of the elastic lamella at the mouth of cerebral berry aneurysm? An ultrastructural study with special regard to the elastic tissue, 640
Experimental aneurysms, 530
Factors related to level of consciousness in the acute stage of ruptured intracranial aneurysms, 313
Fibromuscular dysplasia and multiple dissecting aneurysms of

alpha-coma
Alpha-coma. Electroencephalographic, clinical, pathologic, and etiologic correlations, 317

altitude illness
Cerebral form of high-altitude illness, 308

alzheimer's disease
Analysis of intellectual and cognitive performance in patients with multi-infarct dementia, verteobasilar insufficiency with dementia, and Alzheimer’s disease, 99
Congophilic angiopathy complicated by surgery and massive hemorrhage: a light and electron microscopic study, 428
Effect of CSF removal on CBF and metabolism in patients with stroke and Alzheimer's disease, 8

anomers
Effects of prostaglandins on cerebral blood vessels: Interaction with vasoactive amines, 424
INDEX

Aneurysms-aorta

Head and neck radioangiography, 532
Lateral angiogram in the differentiation of extracranial hematomas, 197
Lateral projections with inclined head for angiography of basal cerebral aneurysms, 97
New method of automography with cerebral angiography (angioautotomography), 200
Noninvasive angiography for the diagnosis of carotid artery disease using Doppler ultrasound (carotid artery Doppler), 354
Noninvasive angiography for the diagnosis of vertebral artery disease using Doppler ultrasound (vertebral artery Doppler), 364
Perangiographic rupture of a right posterior communicating artery aneurysm, 644
Posterior fossa subdural hematoma demonstrated by vertebral angiography, 638
Regional cerebral blood flow on cerebrovascular " moyamoya" disease — study by 133Xe clearance method and cerebral angiography, 312
Retinal artery emboli. Indications for angiography and carotid endarterectomy, 197
Role of cerebral angiography in verteobasilar occlusive disease, 99
Selective cerebral angiography through the axillary artery, 256
Surgical treatment of primary intracerebral hemorrhage. Part I: new angiographical classification, 30
Technical contribution to the exact angiographic localization of carotid cavernous fistulas, 638
Transfusion therapy for cerebrovascular abnormalities in sickle cell disease, 431
Vasodilator action of angiography with Urografin 600 on the basal vessels of the brain of the baboon, 199
Vertebral artery fistula detected by radionuclide angiography: Case report, 321

Angiopathy

Congophilic angiopathy complicated by surgery and massive hemorrhage: a light and electron microscopic study, 428

Anemia, cerebral

Cerebrospinal-fluid acid-base and electrolyte changes resulting from cerebral anoxia in man, 321

Anticoagulant therapy

Complications neurologiques des antiocoagulants (Neurological complications of antiocoagulants), 425
Intrakranielle und spinale Blutungen bei hämophilie (Intracranial and spinal hemorrhage in haemophilia), 430
Ischaemic optic neuropathy: the clinical profile and natural history, 433
Long-term anticoagulant therapy for TIAs and minor strokes with minimum residuum, 444
Transient paraplegia from hematoma after lumbar puncture: a consequence of anticoagulant therapy, 430
Trial of long-term anticoagulant therapy in the treatment of small stroke associated with a normal carotid arteriogram, 310

Anticoagulants

Effect of anticoagulants and inhibitors of platelet aggregation on thrombotic occlusion of endarterectomized cat carotid arteries, 348

Antifibrinolytic therapy

Use of epsilon aminocaproic acid (EACA) in the preoperative management of ruptured intracranial aneurysms, 632

Antipyrine

Analysis of brain uptake and loss of radiotracers after intravenous administration of antipyrine, 207
Permeability limitation in estimation of local brain blood flow with (3H) antipyrine, 102

Antithrombotic agents

Pharmacology of a potent, new antithrombotic agent, 6-methyl-1, 2, 3, 5-tetrahydroimidazo [2, 1-b] quinazolin-2-one hydrochloride monohydrate (BL-3459), 207

Aorta

Apolipoprotein localization in human cranial arteries, coronary arteries, and the aorta, 390
Effects of carotid hypotension on aortic hemodynamics in the unanesthetized dog, 426
aphasia
Aphasia in acute stroke, 167
Aphasia outcome in stroke: a clinical neuroradiological correlation, 516
Aphasia with infarction in the territory of the anterior cerebral artery, 452
Brain specialization for language does not depend on literacy, 634
Reversal of aphasia with superficial temporal artery to middle cerebral artery anastomosis, 636
apolipoproteins
Apolipoprotein localization in human cranial arteries, coro-
nary arteries, and the aorta, 390
apoplexy
Electrophysiological parameters in the evaluation of occipital apoplexy, 317
apridine
Pharmacological control of local oxygen regulation mechanisms in brain tissue, 469
arrhythmias
Cardiac arrhythmias in acute central nervous system disease: successful management with stellate ganglion block, 432
High pacemaker implantation rate following "cardiogenic neurology." Results in 129 consecutively paced patients, 355
arterial disease, extracranial
Reliability of clinical predictors of extracranial artery disease, 377
arteries
Angiographically verified transient alteration of the intracranial arteries and veins in dependence on different CO2 tensions, 638
Arterial cell renewal after experimentally induced thrombosis, 533
Effect of thioucaril upon canine arterial elastic tissue, 428
Fibromuscular dysplasia and multiple dissecting aneurysms of intracranial arteries: a further cause of Moyamoya syndrome, 393
Microsurgical anatomy of the anterior cerebral-anterior communicating-Heubner artery complex, 10
Role of the carotid body in mediating the cerebrovascular response to altered arterial carbon dioxide tension, 72
arteries, adackiewicz
Complete embolization of artery of Adamkiewicz to obliterate an intramedullary arteriovenous aneurysm. Case report, 316
arteries, anterior cerebral
Aneurysms of the distal anterior cerebral artery, 421
Anterior cerebral artery: 1. Anatomoradiological study of its cortical territories, 530
Aphasia with infarction in the territory of the anterior cerebral artery, 432
Carotid-anterior cerebral artery anastomosis. Case report, 634
Model for spasm of the anterior cerebral artery, 243
On the importance of the anterior cerebral artery (Letter), 523
Proximal occlusion of the anterior cerebral artery for anterior communicating aneurysm, 316
arteries, anterior communicating
Quality of survival following direct surgery for anterior communicating artery aneurysm, 92
arteries, anterior cerebral
Surgical anatomy of the proximal anterior cerebral artery, 634
arteries, axillary
Selective cerebral angiography through the axillary artery, 526
arteries, basal cerebral
Vasodilator action of angiography with Urografin 600 on the basal vessels of the brain of the baboon, 199
arteries, basilar
Basilar artery migraine in young children, 319
Experimental carotid-basilar bypass, 645
Experimental evaluation of the spasmogenicity of dopamine on the basilar artery, 420
Fibromuscular dysplasia of the basilar artery. Report of a case, 645
Ligation of the vertebral (unilateral or bilateral) or basilar artery in the treatment of large intracranial aneurysms, 195
Responses of isolated human basilar arteries to 5-hydroxy-
tryptamine, noradrenaline, serum, platelets, and erythro-
cytes, 310
arteries, brachiocephalic
Pseudoaneurysm of the brachiocephalic arteries: a complication of percutaneous internal jugular vein catheterization, 104
arteries, carotid
Accuracy of the supraorbital Doppler examination in the diagnosis of hemodynamically significant carotid occlusive disease, 326
Carotid blood velocity during cough studies in man, 416
Carotid endarterectomy for cerebral ischemia: technical considerations, operative results, 12
Carotid-anterior cerebral artery anastomosis. Case report, 634
Carotid-ophthalmic aneurysms, 530
Cerebral function before and after carotid endarterectomy, 427
Cerebral infarction following bilateral carotid artery ligation in normotensive and spontaneously hypertensive rats: a pathological study, 54
Clinical evaluation of real-time ultrasonic B-scan imaging of the carotid artery: a preliminary report, 3
Complications of dermal graft protection of carotid artery, 429
Measurement of jugular venous blood gases for prediction of brain ischaemia following carotid ligation: a comparison with direct measurements of cerebral blood flow, 533
Noninvasive and arteriographic diagnosis of hemo-
dynamically significant carotid lesions, 2
Noninvasive measurement of velocity profiles and blood flow in the common carotid artery by pulsed Doppler ultrasound, 370
Operative assessment of carotid endarterectomy: internal carotid arterial back pressure, carotid arterial blood flow, and carotid arteriography, 206
Perioperative cerebral embolism in association with carotid arterial surgery: a significant hazard, 13
Pulsed-Doppler ultrasonic arteriography in the diagnosis of carotid arterial stenosis, 3
Real-time high resolution ultrasound carotid imaging system, 3
Role of the carotid body in mediating the cerebrovascular response to altered arterial carbon dioxide tension, 72
Scanning electron microscopic observations of common carotid artery endothelium in the rat. I. Crater artifacts, 428
Scanning electron microscopic observations of common carotid artery artery of the rat, 111
Heparin effect on platelets, 636
Spontaneous dissecting aneurysms of the cervical internal carotid artery, 6
Spontanverlauf und prognose einseitiger carotisverschlflsse (Course and prognosis of unilateral carotid artery occlusion), 427
Temporal profile (clinical course) of acute carotid system cere-
brain infarction, 64
Total and regional cerebral blood flow during stimulation of carotid baroreceptors, 7
Total and regional cerebral blood flow during stimulation of carotid baroreceptors, 239
arteries, cerebellar
Aneurysm of the posterior inferior cerebellar artery of a 5-year-old girl, 428
Anterior inferior cerebellar artery in mass lesions. Preliminary findings with emphasis on the lateral projection, 638
Anterior inferior cerebellar artery originating from the cavernous portion of the internal carotid artery, 97
Occipital artery-posterior inferior cerebellar artery anastomosis, 636

arteries, cerebral
Analysis of the insensitivity of cerebral arteries to nerve stimulation and exogenous norepinephrine (NE), 9
Cerebral arterial reaction to injury, 9
Cerebral atherosclerosis. Intimal proliferation and atherosclerosis in the cerebral arteries, 317
Chronic cerebral arterial spasm. The role of intracranial pressure, 316
Congenital anomalies of cerebral artery and intracranial aneurysms, 640
Mechanisms of contractile response of cerebral artery to externally-applied fresh blood, 97
Nicotine-induced relaxation in isolated canine cerebral arteries, 203
Paradoxical dilatation of the large cerebral arteries in hypopcapnia in man, 569

arteries, ciliary
Ischemia of ciliary arterial circulation from ocular compression, 422

arteries, coronary
Age related changes of the middle cerebral artery and a comparison with the radial and coronary artery, 201
Apolipoprotein localization in human cranial arteries, coronary arteries, and the aorta, 390
Effects of clofibrate and sulfipyrazone on platelet survival time in coronary artery disease, 194

arteries, cortical
Cerebral cortical arteries in the diagnosis of epidural hematoma, 638

arteries, cranial
Apolipoprotein localization in human cranial arteries, coronary arteries, and the aorta, 390

arteries, external carotid
Autoregulation in external carotid artery branches in the baboon, 199
Super-selective arteriography of branches of the external carotid artery, 636

arteries, innominate
Extrathoracic bypass for stenosis of innominate artery, 94

arteries, internal carotid
Analysis of brain scan in patients with internal carotid arterial occlusion, 319
Aneurysm of the upper cervical portion of the internal carotid artery due to exogenous focal arteritis, 319
Anterior inferior cerebellar artery originating from the cavernous portion of the internal carotid artery, 97
Effects on arterial blood flow, CO2, and CSF pressure on internal carotid blood flow in the baboon, 635
New sign of occlusion of the origin of the internal carotid artery, 546
Ophthalmodynamometry in internal carotid artery occlusion, 564
Prognosis of patients with unilateral extracranial occlusion of the internal carotid artery, 480
Superselective internal carotid arteriography and embolectomy, 199
Treatment for high extracranial internal carotid artery aneurysms, 646
Treatment of internal carotid bifurcation aneurysms by direct surgery, 196

arteries, middle cerebral
Age related changes of the middle cerebral artery and a comparison with the radial and coronary artery, 201
Changes in regional cortical tissue oxygen tension and cerebral blood flow during temporary middle cerebral artery occlusion in baboons, 431
Embolic occlusion of the superior and inferior divisions of the middle cerebral artery with angiographic-clinical correlation, 643
Giant aneurysm of the middle cerebral artery: angiographic analysis of blood flow, 94
Influence of changes in arterial CO2 and blood pressure on the collateral circulation and the regional perfusion pressure in monkeys with occlusion of the middle cerebral artery, 529
Intracranial pressure, blood pressure, and pulse rate after occlusion of a middle cerebral artery in cats, 316
Middle cerebral artery embolectomy. Case report, 632
Prognosis of patients with middle cerebral artery occlusion, 482
Regional cerebral blood flow studies following superficial temporal-middle cerebral artery anastomosis, 423
Reversal of aphasia with superficial temporal artery to middle cerebral artery anastomosis, 636
Spontaneous cerebral revascularization in a patient with STA-MCA anastomosis. Case report, 424
Stroke in a 15-year-old girl secondary to terminal carotid dissection, 98

arteries, ophthalmic
Carotid-ophthalmic aneurysms, 530
Intracranial ophthalmic artery aneurysm, 202
Ophthalmic arterial blood pressures measured by ocular plethysmodynamography, 93

arteries, pial
Alpha-receptor stimulation by endogenous and exogenous norepinephrine and blockade by phentolamine in pial arteries of cats, 100
Pial arteriolar responses in the mouse brain revisited, 283

arteries, posterior cerebral
Anatomical variations in the origin of the posterior cerebral artery demonstrated by carotid angiography, and their significance in the direct surgical treatment of posterior communicating aneurysms, 100
Embollic posterior cerebral artery occlusion secondary to spondylitic vertebral artery compression. Case report, 317

arteries, radial
Age related changes of the middle cerebral artery and a comparison with the radial and coronary artery, 201

arteries, retinal
Cilio-retinal arterial circulation in central retinal vein occlusion, 320
Ischemia of ciliary arterial circulation from ocular compression, 422
Retinal artery emboli. Indications for angiography and carotid endarterectomy, 197

arteries, superficial temporal
Experiences with superficial temporal artery anastomosis, 13

arteries, temporal
Regional cerebral blood flow studies following superficial temporal-middle cerebral artery anastomosis, 423
Reversal of aphasia with superficial temporal artery to middle cerebral artery anastomosis, 636
Spontaneous cerebral revascularization in a patient with STA-MCA anastomosis. Case report, 424

arteries, vertebral
Embolic posterior cerebral artery occlusion secondary to spondylitic vertebral artery compression. Case report, 317
Lateral medullary syndrome in a child: arteriographic confirmation of vertebral artery occlusion, 430
Ligation of the vertebral (unilateral or bilateral) or basilar artery in the treatment of large intracranial aneurysms, 195
Noninvasive angiography for the diagnosis of carotid artery disease using Doppler ultrasound (carotid artery Doppler), 354
Noninvasive angiography for the diagnosis of vertebral artery disease using Doppler ultrasound (vertebral artery Doppler), 364
Vertebral artery fistula detected by radionuclide angiography: Case report, 321
Vertebral artery occlusion and oral contraceptives, 637

arteriography
B-Mode sonography as a screening procedure for asymptomatic carotid bruits, 202
Noninvasive and arteriographic diagnosis of hemodynamically significant carotid lesions, 2
Operative assessment of carotid endarterectomy: internal ca-
INDEX

balance
Diseases of the central nervous system: cerebral atherosclerosis, transient ischemic attacks, Menière's disease, and disorders of balance, 320

Problem of dizziness and syncope in old age: transient ischemic attacks versus hypersensitive carotid sinus reflex, 322

balloon occlusion
Experimental approach to the treatment of carotid cavernous fistulas with an inflatable and isolated balloon, 97
Treatment of vertebrojugular fistula by balloon occlusion. Case report, 196

barbiturates
Barbiturate attenuation of the clinical course and pathologic lesions in a primate stroke model, 199
Effect of barbiturates on synaptosomal ATPase following ischemia, 4
Pathophysiology of barbiturate protection in focal ischemia, 3

baroreceptors
Baroreceptor reflex control of arterial hemodynamics in the dog, 419
Idiopathic orthostatic hypotension controlled with a monoamine oxidase inhibitor and 9-alpha-fluorohydrocortisone, 533
Total and regional cerebral blood flow during stimulation of carotid baroreceptors, 7
Total and regional cerebral blood flow during stimulation of carotid baroreceptors, 239

beta blockade
Adrenergic β-receptor blockade in essential hypertension: A comparison between pindolol (visken*) and propranolol (inderal*), 309
Effect of beta-adrenergic blockade with propranolol on cerebral blood flow, autoregulation and CO₂ responsiveness, 291
Orthostatic hypotension associated with paroxysmal ventricular tachycardia, 311

betahistine
Distribution of cardiac output in dogs during intravenous infusion of betahistine, 257

binswanger's disease
Subcortical arteriosclerotic encephalopathy (Binswanger's disease): a vascular etiology of dementia, 626

biobond
Früh- und spätbunfe nach biobond-beschichtung von intra-kranialen aneurysmen (early and late results after coating intracranial aneurysms with Biobond), 100

biofeedback
Biofeedback treatment of foot drop after stroke compared with standard rehabilitation technique (part 2): effects on voluntary control and strength, 98

birth control
Oclusive retinal arterioliths with neovascularization, 646
Vertebral artery occlusion and oral contraceptives, 637

bl-3459
Pharmacology of a potent, new antithrombotic agent, 6-methyl-1, 2, 3, 5-tetrahydroimidazolo[2, 1-b] quinazolin-2-one hydrochloride monohydrate (BL-3459), 207

blindness
Cortical blindness in cranial arteritis, 206

blink reflex
Blink reflex in hemiplegia, 536

block, stellate ganglion
Cardiac arrhythmias in acute central nervous system disease: successful management with stellate ganglion block, 432

blood flow
Baroreceptor reflex control of arterial hemodynamics in the dog, 419
Blood flow in normal and injured monkey spinal cord, 102
Comparison of local blood flow and oxygen availability at the same locus in the ischemic gerbil brain, 274
Comparison of vascular reactivity in spinal cord and brain, 560
Flow and compartmental weight in relation to the course of stroke, 399

Giant aneurysm of the middle cerebral artery: angiographic analysis of blood flow, 94
Influence of adrenergic receptor blockade on circulatory and metabolic effects of disordered neurotransmitter function in stroke patients, 158
Ischemic brain edema and compression brain edema: water content, blood-brain barrier and circulation, 77
Mechanisms of postischemic brain edema: contribution of circulatory factors, 410
Neuronal function and local blood flow during experimental cerebral ischemia, 5
Patterns of changes of blood flow and relationships to infarction in experimental cerebral ischemia, 454
Permeability limitation in estimation of local brain blood flow with (¹⁴C) antipyrine, 102
Pyridine nucleotide redox state and blood flow of the cerebral cortex following middle cerebral artery occlusion in the cat, 125
Recovery of the corticomed evoked response following temporary middle cerebral artery occlusion in baboons: relation to local blood flow and Po₂, 151
Report of the joint committee for stroke facilities XIII. Cerebral metabolism in stroke, 211
blood flow, carotid
Changes in carotid flow velocity induced by direct percutaneous carotid angiography in man, 645

blood flow, carotid arterial
Operative assessment of carotid endarterectomy: internal carotid arterial back pressure, carotid arterial blood flow, and carotid arteriography, 206

blood flow, cephalic
Central neurogenic control of cerebral and cephalic blood flow in dogs, 7

blood flow, cerebral
Alterations in behavior, brain electrical activity, cerebral blood flow, and intracranial pressure produced by triethyl tin sulfate induced cerebral edema, 21
Alterations in cerebral blood flow produced by hypotension: a comparison of methods, 319
Autoregulation of cerebral blood flow in hypertensive patients. Modifying influence of prolonged antihypertensive treatment on the tolerance to acute, drug-induced hypotension, 644
Blood flow and relative tissue Po₂ of brain and muscle: effect of various gas mixtures, 642
Brain circulation in cerebral transient ischemic attacks, 428
Brain-blood partition coefficients of Krypton at 37 C and 29.5 C, 634
Central cholinergic control of cerebral blood flow in the baboon. Effect of cholinesterase inhibition with neostigmine on autoregulation and CO₂ responsiveness, 421
Central neurogenic control of cerebral and cephalic blood flow in dogs, 7
Cerebral blood flow in dementia, 194
Cerebral blood flow regulation: vascular resistance adjustments in the circle of Willis, 147
Cerebral blood flow. A predictor of recovery from ischemia in the gerbil, 94
Cerebral circulation after cardiac arrest — angiographic and carbon black perfusion studies, 422
Changes in cerebral blood flow during a migraine attack, 318
Changes in local cerebral blood flow following profound systemic hypotension, 528
Changes in regional cortical tissue oxygen tension and cerebral blood flow during temporary middle cerebral artery occlusion in baboons, 431
Correlation between regional cerebral blood flow and EEG frequency in the contralateral hemisphere in acute cerebral infarction, 204
Dynamic changes in regional CBF, intraventricular pressure, CSF pH and lactate levels during the acute phase of head injury, 328
Effect of a new vasodilator (flunarizine) on the cerebral circulation (of cats), 202
Effect of beta-adrenergic blockade with propranolol on cerebral blood flow, autoregulation and CO₂ responsiveness, 291
Effect of CSF removal on CBF and metabolism in patients with stroke and Alzheimer’s disease, 8
Effect of intracarotid prostaglandin E, on the regional cerebral blood flow in man, 566
Effect of intracarotid phenolamine on cerebral blood flow after subarachnoid injection of blood, 633
Effect of stimulation of carotid chemoreceptors on total and regional cerebral blood flow, 524
Effect of systemic arterial blood pressure on cerebral blood flow in intracranial hypertension, 527
Effects of ATP on cerebral circulation. Morphological observation of cerebral blood vessel and cerebral hemodynamics, 640
Effects of decreasing arterial blood pressure on cerebral blood flow in the baboon. Influence of the sympathetic nervous system, 427
Effects of hyperventilation, CO₂, and CSF pressure on intracarotid blood flow in the baboon, 633
Effects of increased arterial pressure on blood flow in the damaged brain, 311
Effects of increased intracranial pressure on cerebral blood flow and oxygen utilization in monkeys, 315
Evidence for a dual innervation affecting local blood flow in the hypothalamus of the conscious rabbit, 644
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part I: pathophysiology, encephalography, cerebral blood flow, blood-brain barrier, and neurological function, 195
Hemispheric specialization in normal man studied by bilateral measurements of the regional cerebral blood flow: A study with the 133Xe inhalation technique, 322
Heterogeneities of regional cerebral blood flow during hypoxia-ischemia in the rat, 132
Measurement of cerebral circulation by means of ultrasonic Doppler technique in man, 421
Measurement of jugular venous blood gases for prediction of brain ischemia following carotid ligation: a comparison with direct measurements of cerebral blood flow, 533
Neurogenic control of cerebral blood flow in the baboon. Effects of the cholinergic inhibitory agent, atropine, on cerebral autoregulation and vasomotor reactivity to changes in Paco₂, 423
Neurogenic influence on local cerebral blood flow. Effect of catecholamines or sympathetic stimulation as correlated with the sympathetic innervation, 309
Neurogenic regulation of cerebral blood flow following ischemia, 113
No-reflow phenomenon in the cerebral circulation of the gerbil, 527
Oxygen availability and blood flow in the temporal lobes during spontaneous epileptic seizures in man, 431
Pathophysiological aspects of acute stage patients with ruptured intracranial aneurysms. Part II: relationships between neurological prognosis and sequential changes of cerebral blood flow dynamics, 427
Raising intracranial pressure and cerebral blood flow. 5. Effects of episodic intracranial pressure waves in primates, 526
Regional cerebral blood flow in delayed brain swelling following x-irradiation of the right occipital lobe in the monkey, 314
Regional cerebral blood flow in the diagnosis of vascular headache, 320
Regional cerebral blood flow on cerebrovascular “moya-moya” disease — study by 133Xe clearance method and cerebral angiography, 312
Regional cerebral blood flow studies following superficial temporal-middle cerebral artery anastomosis, 423
Relation between intracranial pressure, mean arterial pressure and cerebral blood flow in patients with severe head injury, 100
Selection of patients for extra-intracranial arterial bypass surgery based on rCBF measurements, 633
Sodium nitroprusside and cerebral blood flow in the anesthetized and unanesthetized goat, 531
Studies on the adrenergic mechanisms in cerebral blood flow of rat, 9
Studies on the cerebral circulation of the baboon in acutely induced hypertension, 287
Study on regional cerebral blood flow and metabolism in the patients with vegetative state, 513
Temporal effect of reticular formation lesions on rat regional cerebral blood flow, 7
Total and regional cerebral blood flow during stimulation of carotid baroreceptors, 7
Total and regional cerebral blood flow during stimulation of carotid baroreceptors, 239
Transient responses of cerebral blood flow and ventilation to changes in PaCO₂ in normal subjects and patients with cerebrovascular disease, 554
Upper limit of cerebral blood flow autoregulation in experimental renovascular hypertension in the baboon, 100
Value of mechanical ventricular assistance in maintenance of cerebral blood flow after cardiac arrest, 201
Veränderungen von durchblutung und oxidadtivem stoffwechsel des gehirns bei patienten mit einer demenz (Blood flow and oxidative metabolism of the brain in patients with dementia), 334
blood flow, circulatory arrest
Cerebral effects of profound hypothermia (180C) and circulatory arrest, 194
blood flow, collateral
Assessment of the capacity of cerebral collateral circulation using ultrasonic Doppler technique, 526
Influence of changes in arterial CO₂ and blood pressure on the collateral circulation and the regional perfusion pressure in monkeys with occlusion of the middle cerebral artery, 529
blood flow, posterior cerebral
Evaluation of the posterior flow study in brain scintigraphy, 221
blood flow, spinal cord
Experimental cervical myelopathy: autoradiographic studies of spinal cord blood flow patterns, 636
Preserved autoregulation in the rhesus spinal cord after high cervical cord section, 432
Some aspects of the spinal cord circulation in cervical myelopathy, 200
Spinal cord blood flow after acute experimental cord injury in dogs, 433
Spinal cord blood flow as affected by changes in systemic arterial blood pressure, 420
Spinal cord blood flow measured by a hydrogen clearance technique, 322
blood flow, vertebrobasilar
Angiographic study of the normal cerebral circulation. II. The vertebrobasilar system, 638
blood flow measurement
Brain-blood partition coefficients of Krypton at 37 C and 29.5 C, 634
Noninvasive measurement of velocity profiles and blood flow in the common carotid artery by pulsed Doppler ultrasound, 370
blood flow obstruction
Abnormal cerebrovascular response to altered Paco₂ in baboons with obstructive jaundice, 190
Microcirculatory obstruction in focal cerebral ischemia: an electron microscopic investigation in monkeys, 25
Microcirculatory obstruction in focal cerebral ischemia. Relationship to neuronal alterations, 102
blood flow regulation
Central neurogenic control of cerebral and cephalic blood flow in dogs, 7
Cerebral blood flow regulation: vascular resistance adjustments in the circle of Willis, 147
Effect of beta-adrenergic blockade with propranolol on cerebral blood flow, autoregulation and CO₂ responsiveness, 291
blood gas
Carotid plaque morphology: mechanisms contributing to cerebral ischemia, 5

blood gases
Blood flow and relative tissue PO₂, of brain and muscle: effect of various gas mixtures, 642
Measurement of jugular venous blood gases for prediction of brain ischemia following carotid ligation: a comparison with direct measurements of cerebral blood flow, 533

blood pressure
Cerebrovascular CO₂ reactivity in normotensive and hypertensive man, 507
Components of blood pressure and risk of atherothrombotic brain infarction: the Framingham study, 327
How does blood-pressure cause stroke?, 425
Slower turnover of norepinephrine in the brain associated with an acute elevation in blood pressure of rats, 318
Spinal cord blood flow as affected by changes in systemic arterial blood pressure, 420

blood pressure, arterial
Effect of systemic arterial blood pressure on cerebral blood flow in intracranial hypertension, 527
Effects of decreasing arterial blood pressure on cerebral blood flow in the baboon. Influence of the sympathetic nervous system, 427
Influence of changes in arterial CO₂ and blood pressure on the collateral circulation and the regional perfusion pressure in monkeys with occlusion of the middle cerebral artery, 529

blood pressure, carotid
Carotid plaque morphology: mechanisms contributing to cerebral ischemia, 5

blood pressure, intracranial
Alterations in behavior, brain electrical activity, cerebral blood flow, and intracranial pressure produced by triethyl tin sulfate induced cerebral edema, 21
Cerebral hemodynamic crisis. Physiology, pathophysiology, and approach to therapy, 536
Chronic cerebral arterial spasm. The role of intracranial pressure, 316

blood pressure, intraventricular
Dynamic changes in regional CBF, intraventricular pressure, CSF pH and lactate levels during the acute phase of head injury, 528

blood pressure, intracranial
Effects of increased arterial pressure on blood flow in the damaged brain, 311
Effects of increased intracranial pressure on cerebral blood volume, blood flow, and oxygen utilization in monkeys, 315
Intracranial pressure, blood pressure, and pulse rate after occlusion of a middle cerebral artery in cats, 316
Intraventricular hemorrhage associated with rapid increase in intracranial pressure (Ptersson's syndrome), 201
Raised intracranial pressure and cerebral blood flow. 5. Effects of episodic intracranial pressure waves in primates, 526
Relation between intracranial pressure, mean arterial pressure and cerebral blood flow in patients with severe head injury, 100

blood pressure, systemic
Method for measuring brain tissue pressure. Response to alteration in PCO₂, systemic blood pressure, and middle cerebral artery occlusion, 96

blood pressure measurement
Measurement of collateral cerebral hemispheric blood pressure of ocular pneumoplethysmography, 197
Method for measuring brain tissue pressure. Response to alteration in PCO₂, systemic blood pressure, and middle cerebral artery occlusion, 96
Ophthalmic arterial blood pressures measured by ocular plethysmodynamography, 93
T-shaped carotid shunt, 309

blood vessels, intracranial
Permeability of intracranial blood vessels to serum protein, 8

blood viscosity
Klinische bedeutung von blutviskositatsveranderungen im rahmen der zerebrovaskularen insuffizienz (Clinical significance of changes in blood viscosity in cerebrovascular insufficiency), 420

blood volume, cerebral
Cerebral blood volume in man: computer analysis of a computerized brain scan, 320
Computer subtraction in regional cerebral blood volume measurements using the EMI-scanner, 639
Effects of increased intracranial pressure on cerebral blood volume, blood flow, and oxygen utilization in monkeys, 315
In vivo determination of cerebral blood volume with radio-active oxygen-15 in the monkey, 419
Increased cerebral blood volume in benign intracranial hypertension, 96

blood-brain barrier
Blood-brain barrier permeability of 14C-labeled alcohols and 3H-labeled water, 642
Effect of hypertonic solutions on the blood-brain barrier, 198
Electrical stimulation of the brain. II. Effects on the blood-brain barrier, 312
Experimental cerebral ischemia in Mongolian gerbils. III. Behaviour of the blood-brain barrier, 643
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part I: pathophysiology, electroencephalography, cerebral blood flow, blood-brain barrier, and neurological function, 195
Ischemic brain edema and compression brain edema: water content, blood-brain barrier and circulation, 77
Short-term clinical trial of propranolol in racemic form (Inderal), D-propranolol and placebo in migraine, 640
Steroid response to acute hypertension and its relation to cerebrovascular damage, 4

bradycardia
Sinus bradycardia following treatment with hydrgine for cerebrovascular insufficiency, 320

brain damage
Amelioration of brain damage after 12 minutes' cardiac arrest in dogs, 524
Brain damage after open-heart surgery, 204
Caution to brain scientists: unsuspected hemorrhagic vascular damage resulting from mere electrode implantation, 535
Effects of increased arterial pressure on blood flow in the damaged brain, 311
Functional recovery with and without training following brain damage in experimental animals: a review, 637
Ischaemic brain damage in the gerbil in the absence of "no-reflow", 527
Ischaemic brain damage of cerebral perfusion failure type after treatment of severe hypertension, 430
Pyramidal tract responses (PTR) during hypoxia and hypotension, 300
Resuscitation of the monkey brain after one hour complete ischemia. III. Indications of metabolic recovery, 314

brain energy metabolism
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 3: brain energy metabolism, 196

brain injury
Brain creatine kinase in blood after acute brain injury, 99
Cerebral arterial reaction to injury, 9
Effects of hypertension on postischemic brain injury in mongolian gerbils, 4
Relation between intracranial pressure, mean arterial pressure and cerebral blood flow in patients with severe head injury, 100

brain stem
Continuous vertical pendular eye movements after brain-stem hemorrhage, 199
Occipital to cerebellar artery anastomosis for brain stem infarction from vertebralbasilar occlusive disease, 13
Regional cerebral metabolic rate of glucose in rats with brain stem lesions, 5
Surgical removal of arteriovenous malformations from the brain stem and cerebellopontine angle, 423

brain swelling
Ischaemic swelling of cerebral hemisphere in the gerbil, 527
Regional cerebral blood flow in delayed brain swelling following x-irradiation of the right occipital lobe in the monkey, 314

brain tissue
Dynamic response of the intracranial system in the conscious dog to papaverine hydrochloride, 618
Elastic behavior of brain tissue in vivo, 642

brain tissue metabolism
Pharmacological control of local oxygen regulation mechanisms in brain tissue, 469

brain tissue pressure
Method for measuring brain tissue pressure. Response to alteration in Pco2, systemic blood pressure, and middle cerebral artery occlusion, 96

bruits
B-Mode sonography as a screening procedure for asymptomatic carotid bruits, 202
Bruit, ophthalmodynamometry and rectilinear scanning on transient ischemic attacks, 581
Management of asymptomatic carotid bruits, 429

bypass surgery
Clinical experience with extra-intracranial arterial anastomosis in 65 cases, 633
Experiences with superficial temporal artery anastomosis, 13
Experimental bypass for sagittal sinus repair. Preliminary report, 633
Experimental carotid-basilar bypass, 466
Extracranial-intracranial arterial bypass in the treatment of dementia and multiple extracranial arterial occlusion, 13
Extrathoracic bypass for stenosis of innominate artery, 94
Fetal cerebral atheromatous embolization after cardiopulmonary bypass, 635
Fetal cerebral embolism following aorto-coronary bypass graft surgery, 611
Mammary-vertebral microsurgical anastomosis, 203
Neurovascular microsurgery. A model for laboratory investigation and the development of technical skills, 655
Occipital artery-posterior inferior cerebellar artery anastomosis, 636
Occipt to cerebellar artery anastomosis for brain stem infarction from verteobasilar occlusive disease, 13
Reversal of aphasia with superficial temporal artery anastomosis, 636
Scanning electron microscopic appraisal of a new micro T-tube, 476
Selection of patients for extra-intracranial arterial bypass surgery based on rCBF measurements, 633
Stroke: what's new? Cerebral revascularization, 201

C

calcification
Intimal and medial calcifications of the carotid siphon and cerebrovascular disease, 197
cancer
Cerebral embolism, marantic endocarditis, and cancer, 634
Neurologic manifestations of intravascular coagulation in patients with cancer. A clinicopathologic analysis of 12 cases, 198
capillaries
Capillaries in the subarachnoid space, 645
carbohydrates
Experimental cerebral ischemia in Mongolian gerbils. II. Changes in carbohydrates, 535
carbon dioxide
Angiographically verified transient alteration of the intracranial arteries and veins in dependence on different CO2 tensions, 638
Central cholinergic control of cerebral blood flow in the baboon. Effect of cholinesterase inhibition with neostigmine on autoregulation and CO2 responsiveness, 423
Cerebrovascular CO2 reactivity in normotensive and hypertensive man, 507

Effect of beta-adrenergic blockade with propranolol on cerebral blood flow, autoregulation and CO2 responsiveness, 291
Effects of hyperventilation, CO2, and CSF pressure on internal carotid blood flow in the baboon, 633
Influence of changes in arterial CO2 and blood pressure on the collateral circulation and the regional perfusion pressure in monkeys with occlusion of the middle cerebral artery, 529
Role of the carotid body in mediating the cerebrovascular response to altered arterial carbon dioxide tension, 72
cardiac arrest
Amelioration of brain damage after 12 minutes' cardiac arrest in dogs, 534
Cerebral circulation after cardiac arrest — angiographic and carbon black perfusion studies, 422
Neurologic outcome of prolonged coma survivors of out-of-hospital cardiac arrest, 279
Value of mechanical ventricular assistance in maintenance of cerebral blood flow after cardiac arrest, 201
cardiac output
Distribution of cardiac output in dogs during intravenous infusion of betahistin., 257
cardiogenic neurology
High pacemaker implantation rate following "cardiogenic neurology." Results in 129 consecutively paced patients, 535
cardiopulmonary responses
Effect of carotid sinus nerve stimulation pattern on cardiorespiratory responses, 641
carotid sinus
Effect of carotid sinus nerve stimulation pattern on cardiorespiratory responses, 641
Effect of cervical sympathetic nerve stimulation on canine carotid sinus reflex, 441
Problem of dizziness and syncope in old age: transient ischemic attacks versus hypersensitive carotid sinus reflex, 532
catecholamines
Catecholamine content of cerebral tissue after occlusion or manipulation of middle cerebral artery in cats, 97
Circulating catecholamine levels in human and experimental hypertension, 524
Neurogenic influence on local cerebral blood flow. Effect of catecholamines or sympathetic stimulation as correlated with the sympathetic innervation, 309
catheterization
Catheter embolization of intracranial arteriovenous malformations as an aid to surgical excision, 419
Experiences with intraluminal occlusion with the Fogarty catheter in the treatment of carotid-cavernous fistulas and other lesions at the base of the skull, 100
Experimental approach to the treatment of carotid cavernous fistulas with an inflatable and isolated balloon, 97
Femoral percutaneous catheterization in infants and small children for cerebral angiography, 95
Inhibition of injury induced thromboatherosclerotic lesions by anti-platelet serum in rabbits, 636
Pseudoaneurysms of the brachiocephalic arteries: a complication of percutaneous internal jugular vein catheterization, 104
cell metabolism
Arterial cell renewal after experimentally induced thrombosis, 533
central nervous system
Anatomical mapping of the cerebral nervi vasorum in the central nervous system, 432
Use of xeroradiography in the investigation of diseases occurring in the central nervous system, 432
cerebellar pontine angle
Surgical removal of arteriovenous malformations from the brain stem and cerebellar pontine angle, 423
cerebellum
Cerebellar hemorrhage: reliability of clinical evaluation, 332
Neurogenic cerebral vasodilation from electrical stimulation of the cerebellum in the monkey, 179
cerebral artery
In vitro study of prolonged vasospasm of a rabbit cerebral artery, 174
cerebral cortex
Changes in regional cortical tissue oxygen tension and cerebral blood flow during temporary middle cerebral artery occlusion in baboons, 431
Measurements of oxygen tension in the cerebral cortex of baboons, 431
Putative neurotransmitters and cyclic nucleotides in prolonged ischemia of the cerebral cortex, 322
Pyridine nucleotide redox state and blood flow of the cerebral cortex following middle cerebral artery occlusion in the cat, 125

cerebral energy metabolism
Effect of hyperventilation on dynamics of cerebral energy metabolism, 95
cerebral evoked response
Recovery of the cortical evoked response following temporary middle cerebral artery occlusion in baboons: relation to local blood flow and P02, 151
cerebral metabolic rate
Regional cerebral metabolic rate of glucose in rats with brain stem lesions, 5
cerebral metabolism
Effects of vincamin on cerebral metabolism, 103
cerebrospinal fluid
Cerebral haemorrhages with atypical clinical patterns. Study of cerebral haematomas using CSF spectrophotometry and computerized transverse axial tomography ("EMI scanning"), 202
Cerebrospinal fluid concentration of cyclic AMP in cerebrovascular diseases, 533
Cerebrospinal fluid creatine phosphokinase in acute subarachnoid hemorrhage, 420
Cerebrospinal fluid \( \gamma \)-aminobutyric acid levels in migraine, 308
Cerebrospinal-fluid acid-base and electrolyte changes resulting from cerebral anoxia in man, 321
Changes in cortical subarachnoid fluid potassium concentrations during hypoxia, 524
Dynamic changes in regional CBF, intraventricular pressure, CSF pH and lactate levels during the acute phase of head injury, 528
Effect of CSF removal on CBF and metabolism in patients with stroke and Alzheimer’s disease, 8
Effects of hyperventilation, CO2, and CSF pressure on internal carotid blood flow in the baboon, 633
cerebrovascular disease
Acute fragility of cerebral blood vessels in hepatic coma, 431
Case report of a peculiar intracranial angiographic pattern, 319
Cerebrospinal fluid concentration of cyclic AMP in cerebrovascular diseases, 533
Cerebrospinal fluid spectrophotometry and computerized transverse axial tomography (EMI scanning), 202
Epidemiology of cerebrovascular disease in Tartu, Estonia, USSR, 1970 through 1973, 187
Intimal and medial calcifications of the carotid siphon and circle of Willis, 428
Nonketotic hyperglycemic hyperosmolar coma. Report of 18 cases, 202
Neurologic manifestations of intravascular coagulation in patients with cancer. A clinicopathologic analysis of 12 cases, 198

Neurogenic control of cerebral blood flow in the baboon. Effect of cholinesterase inhibition with neostigmine on autoregulation and CO2 responsiveness, 423
Neurogenic control of cerebral blood flow in the baboon. Effects of the cholinergic inhibitory agent, atropine, on cerebral autoregulation and vasomotor reactivity to changes in Paco2, 423

Cholesterol
Cerebral atherosclerosis in Japanese. Part 5: relationship between cholesterol deposition and glycosaminoglycans, 594
cholesterinergic mechanisms
Central cholinergic control of cerebral blood flow in the baboon. Effect of cholinesterase inhibition with neostigmine on autoregulation and CO2 responsiveness, 423
Neurogenic control of cerebral blood flow in the baboon. Effects of the cholinergic inhibitory agent, atropine, on cerebral autoregulation and vasomotor reactivity to changes in Paco2, 423

circle of willis
Cerebral blood flow regulation: vascular resistance adjustments in the circle of Willis, 147
circulatory arrest
Cerebral effects of profound hypothermia (180C) and circulatory arrest, 194
clofibrate
Effects of clofibrate and sulfinpyrazone on platelet survival time in coronary artery disease, 194
clonidine
Clonidine in treatment of hypertension, 309
coagulation
Blood coagulation and plasma fibrinolytic enzyme system pathophysiology in stroke, 337
Neurologic manifestations of intravascular coagulation in patients with cancer. A clinicopathologic analysis of 12 cases, 198

comba
Acute fragility of cerebral blood vessels in hepatic coma, 431
Alpha-coma. Electroencephalographic, clinical, pathologic, and etiologic correlations, 317
Neurologic outcome of prolonged coma survivors of out-of-hospital cardiac arrest, 279
Nonketotic hyperglycemic hyperosmolar coma. Report of neurosurgical cases with a review of mechanisms and treatment, 632

compartmental weight
Flow and compartmental weight in relation to the course of stroke, 399
completed stroke syndrome
Serum lipid changes following the completed stroke syndrome, 103
congenital disorders
Congenital absence of bilateral vertebral arteries with occipital-basilar anastomosis, 202
Congenital anomalies of cerebral artery and intracranial aneurysms, 640
Enzymatic destruction of the elastic lamella at the mouth of...
INDEX

663
dexamethasone
Dexamethasone and DMSO in experimental transorbital cerebral infarction, 577
Steroid therapy in acute cerebral infarction, 424
dextran
Comparison of papaverine and decadron to decadron and dextran to decadron therapy alone in acute ischemic infarction, 6
diabetic procedures
Cerebellar hemorrhage: reliability of clinical evaluation, 332
Head and neck radioangiography, 332
Platelet aggregability measured by screen filtration pressure method in cerebrovascular diseases, 406
Pupillary hemiakinesia in supratentorial lesions, 422
Reliability of clinical predictors of extracranial artery disease, 377
Techniques for positron scintigraphy of the brain, 646
Use of xeroradiography in the investigation of diseases occurring in the central nervous system, 432
diastasis
Cerebral diastasis in stroke, 7
diazoxide
Limitations of diazoxide reversal of vasospasm, 118
diet
Effect of thioucaril upon canine arterial elastic tissue, 428
Experimental canine atherosclerosis and its prevention. The dietary induction of severe coronary, cerebral, aortic, and iliac atherosclerosis and its prevention by safflower oil, 635
Hemodynamic derangement for the induction of cerebrovascular fat deposition in normotensive rats on a hypercholesterolemic diet, 385
Salt, volume and the prevention of hypertension, 643
dilatation
Paradoxical dilatation of the large cerebral arteries in hypopcapnia in man, 569
diplopia
Diplopia and involuntary eye closure in spontaneous cerebellar hemorrhage, 305
dizziness
Problem of dizziness and syncope in old age: transient ischemic attacks versus hypersensitive carotid sinus reflex, 532
dmso
Dexamethasone and DMSO in experimental transorbital cerebral infarction, 577
dopamine
Effect of dopamine-beta-hydroxylase inhibition on cerebral vasospasm in the cat, 527
Experimental evaluation of the spasmogenicity of dopamine on the basilar artery, 420
drug abuse
Serratia marcescens endocarditis: a regional illness associated with intravenous drug abuse, 529
drug therapy
Adrenergic β-receptor blockade in essential hypertension: A comparison between pindolol (visken®) and propranolol (inderal®), 309
Aspirin and transient ischemic attacks, 11
Autoregulation of cerebral blood flow in hypertensive patients. Modifying influence of prolonged antihypertensive treatment on the tolerance to acute, drug-induced hypotension, 644
Barbiturate attenuation of the clinical course and pathologic lesions in a primate stroke model, 199
Cardiac arrhythmias in acute central nervous system disease: successful management with stellate ganglion block, 432
Cerebral infarction in the Mongolian gerbil exacerbated by phenoxycbenzamine treatment, 485
Cerebral manifestations of ergotism: report of a case and review of the literature, 88
Clonidine in treatment of hypertension, 309
Comparison of papaverine and decadron to decadron and dextran to decadron therapy alone in acute ischemic infarction, 6
decadron
Comparison of papaverine and decadron to decadron and dextran to decadron therapy alone in acute ischemic infarction, 6
dementia
Analysis of intellectual and cognitive performance in patients with multi-infarct dementia, vertebrobasilar insufficiency with dementia, and Alzheimer's disease, 99
Cerebral blood flow in dementia, 194
Extracranial-intracranial arterial bypass in the treatment of dementia and multiple extracranial arterial occlusion, 13
Subcortical arteriosclerotic encephalopathy (Binswanger's disease): a vascular etiology of dementia, 626
Veränderungen von durchblutung und oxydativem stoffwechsel des gehirns bei patienten mit einer dement (Blood flow and oxidative metabolism of the brain in patients with dementia), 584
dexamethasone
Dexamethasone and DMSO in experimental transorbital cerebral infarction, 577
Steroid therapy in acute cerebral infarction, 424
dextran
Comparison of papaverine and decadron to decadron and dextran to decadron therapy alone in acute ischemic infarction, 6
INDEX

664

Cyandlate in the treatment of cerebral arteriosclerosis, 532
Dilatatory action of adenosine on pial arteries of cats and its
inhibition by theophylline, 645
Distribution of cardiac output in dogs during intravenous infu-
sion of betaballamine, 257
Double-blind trial of glycerol therapy in early stroke, 641
Drugs affecting platelet function tests: their effects on haemos-
tasis and surgical bleeding, 432
Dynamic response of the intracranial system in the conscious
dog to papaverine hydrochloride, 618
Effect of a new vasodilator (lunaranizine) on the cerebral cir-
culation (of cats), 202
Effect of anticoagulants and inhibitors of platelet aggregation
on thrombotic occlusion of endarterectomized cat carotid
arteries, 248
Effect of intracisternal phenolamine on cerebral blood flow
after subarachnoid injection of blood, 633
Effect of sulfinpyrazone on platelet survival time in patients
with transient cerebral ischemic attacks, 10
Effect of thiouracil upon canine arterial elastic tissue, 428
Effects of glycerol administration on experimental brain
edema, 528
Effects of glycerol on cerebral ultrastructure following experi-
mentally induced cerebral ischemia, 205
Effects of sulfinpyrazone on platelet release reaction and pros-
taglandin synthesis, 11
Experimental and clinical data indicating a potential use of
trazodone in acute stroke, 309
Experimental evaluation of the spasmogenicity of dopamine on
the basilar artery, 420
Facilitation through hyperventilation of therapeutic effect of
pyritrithion in cerebral infarct patients, 103
Glycerol in cerebral edema, 202
Idiopathic orthostatic hypotension controlled with a mono-
amine oxidase inhibitor and 9-alpha-fluorohydoxocortisone, 532
In vivo toxic effects of halothane on canine cerebral metabolic
pathways, 425
Intracranial bleeding associated with urokinase therapy for
acute ischemic hemispheral stroke, 143
Levodopa-enhanced recovery from paralysis induced by air
embolism, 526
Limitations of diazoxide reversal of vasospasm, 118
Neurogenic control of cerebral blood flow in the baboon.
Pathological mechanisms in brain tissue, 469
Pharmacological control of local oxygen regulation
mechanisms in brain tissue, 469
Pharmacology of a potent, new antithrombotic agent, 6-
methyl-1, 2, 3, 5-tetrahydroimidazo [2, 1-b] quinazolin-2-
one hydrochloride monohydrate (BL-3459), 507
Pharmacological mechanism of local oxygen regulation
mechanisms in brain tissue, 469
Pharmacological control of local oxygen regulation
mechanisms in brain tissue, 469
Pilot study of urokinase therapy in cerebral infarction, 135
Platelet dysfunction in migraine and effect of self-medication
with aspirin, 11
Randomized double-blind study of urososide-reserpine in es-
sential hypertension, 309
Role of sulfinpyrazone in the prevention of arteriovenous shunt
thrombosis, 194
Scanning electron microscopic observations of the common ca-
rotid artery of the rat. II. Heparin effect on platelets, 636
Short-term clinical trial of propranolol in racemic form (Inderal),
D-propranolol and placebo in migraine, 640
Sinus bradycardia following treatment with hydrgine for
cerebrovascular insufficiency, 320
Sodium nitroprusside and cerebral blood flow in the anes-
thetized and unanesthetized goat, 531
Sodium nitroprusside treatment of severe arterial hyper-
tension in children, 322

Timing of pentobarbital administration for brain protection in
experimental stroke, 636
Topical lidocaine in treatment of cerebral vasospasm, 98
Trial of long-term anticoagulant therapy in the treatment of
small stroke associated with a normal carotid arteriogram, 310
Use of epsilon aminocaproic acid (EACA) in the preoperative
management of ruptured intracranial aneurysms, 632
Vasodilator action of angiography with Urografin 600 on the
basal vessels of the brain of the baboon, 199

Dysphasia
Volunteer scheme for dysphasia and allied problems in stroke
patients, 206
Dysphasia
Fibromuscular dysplasia and multiple dissecting aneurysms of
intracranial arteries: a further cause of Moyamoya syn-
drome, 393
Fibromuscular dysplasia of the basilar artery. Report of a case, 645
Intracranial fibromuscular dysplasia: report of two cases, one
with autopsy verification, 511

Eca
Use of epsilon aminocaproic acid (EACA) in the preoperative
management of ruptured intracranial aneurysms, 632

Edema
Alterations in behavior, brain electrical activity, cerebral blood
flow, and intracranial pressure produced by triethyl tin sul-
fate induced cerebral edema, 21
Cerebral form of high-altitude illness, 308
Cerebral hemodynamic crisis. Physiology, pathophysiology, and
approach to therapy, 536
Cerebrovasepaparlyse, arterielle hypertension und hirnodem
(Cerebral vasoparalysis, arterial hypertension and brain
edema), 534
Effects of glycerol administration on experimental brain
edema, 528
Glycerol in cerebral edema, 202
Ischemic brain edema and compression brain edema: water
content, blood-brain barrier and circulation, 77
Mechanisms of postischemic brain edema: contribution of cir-
culatory factors, 410
Nonketotic hyperosmolar hyperglycemia during glycerol
therapy for cerebral edema, 529

Elastic response
Elastic behavior of brain tissue in vivo, 642

Elastic tissue
Enzymatic destruction of the elastic lamella at the mouth of
cerebral berry aneurysm? An ultrastructural study with
special regard to the elastic tissue, 640

Electrical activity
Alterations in behavior, brain electrical activity, cerebral blood
flow, and intracranial pressure produced by triethyl tin sul-
fate induced cerebral edema, 21

Electrical stimulation
Caution to brain scientists: unsuspected hemorrhagic vascular
damage resulting from mere electrode implantation, 535
Electrical stimulation of the brain. II. Effects on the blood-
brain barrier, 312
Electrophysiological orthosis for the upper extremity in hemi-
plegia: feasibility study, 532
Neurogenic cerebral vasodilation from electrical stimulation of
the cerebellum in the monkey, 179

Electrocardiography
Allo-epsilon. Electroencephalographic, clinical, pathologic,
and etiologic correlations, 317
Correlation between regional cerebral blood flow and EEG
frequency in the contralateral hemisphere in acute cerebral
infarction, 205
EEG changes after acute cerebral embolism, 536
EEG surveillance as a means of extending operability in high-
risk carotid endarterectomy, 554
INDEX

Effects EEG du nitroprussiate de sodium et references hemodynamiques (EEG and hemodynamic effects of sodium nitroprussiate), 536
Electrocardiogram in infratentorial infarcts, 205
Electroencephalographic surveillance as a means of extending operability in high risk carotid endarterectomy, 12
Evaluation of electroencephalographic monitoring for carotid study, 428
Long-term EKG monitoring in patients with cerebrovascular insufficiency, 264
Subarachnoid hemorrhage: association with unusual electrocardiographic changes, 319
electromyography
Sequence of electromyographic abnormalities in stroke syndrome, 427
electron microscopy
Electron microscopic study of plasmatic arteriorerexosis in the human cerebral arteries, 645
Microcirculatory obstruction in focal cerebral ischemia: an electron microscopic investigation in monkeys, 25
Scanning electron microscopic appraisal of a new micro T-tube, 476
Scanning electron microscopic observations of common carotid artery endothelium in the rat. I. Crater artifacts, 312
Scanning electron microscopic observations of common carotid artery endothelium in the rat. II. Sutured arteries, 312
Scanning electron microscopic observations of the common carotid artery of the rat. III. Heparin effect on platelets, 636
electrophysiology
Electrophysiological orthosis for the upper extremity in hemiplegia: feasibility study, 532
Electrophysiological parameters in the evaluation of occipital apoplexy, 317
emboli
Cerebral embolism, marantic endocarditis, and cancer, 634
Clinical and pathologic correlation of fat embolism syndrome, 96
Differential diagnose des Schlaganfalles in computer-tomogramm, 644
EEG changes after acute cerebral embolism, 536
Embolie occlusion of the superior and inferior divisions of the middle cerebral artery with angiographic-clinical correlation, 643
Embolic posterior cerebral artery occlusion secondary to spondylytic vertebral artery compression. Case report, 317
Fatal cerebral embolism following aorto-coronary bypass graft surgery, 611
Levodopa-enhanced recovery from paralysis induced by air embolism, 526
Middle cerebral artery embolectomy. Case report, 632
Paradoxical embolism. A diagnostic challenge and its detection during life, 643
Perioperative cerebral embolism in association with carotid arterial surgery: a significant hazard, 13
Retinal artery emboli. Indications for angiography and carotid endarterectomy, 197
embolectomy
Catheter embolization of intracranial arteriovenous malformations as an aid to surgical excision, 419
Complete embolization of artery of Adamkiewicz to obliterate an intramurbrid arteriovenous aneurysm. Case report, 316
Embolization of anastomoses of the spinal cord, 426
Fatal cerebral atheromatous embolization after carotid-pulmonary bypass, 655
Fatal paradoxical muscle embolization in traumatic carotid-cavernous fistula repair. Case report, 632
Intra-arterial embolization in the management of arteriovenous malformations, 525
Intraparenchymal embolization: a new technique for obliteration of an intramural arteriovenous malformation of the spinal cord, 6
Polyvinyl alcohol (Ivalon) — a new embolic material, 430
Suprachoroid internal carotid arteriography and embolization, 199
Therapeutic percutaneous embolization for extra-axial vascular lesions of the head, neck, and spine, 195
emergency medical care
Elective carotid artery resection, 427
Primary non-traumatic intracranial hemorrhage: a municipal emergency hospital viewpoint, 608
encephalopathy
Delayed encephalopathy after strangling, 525
encephalopathy, sub cortical arteriosclerotic
Subcortical arteriosclerotic encephalopathy (Binswanger's disease): a vascular etiology of dementia, 626
endarterectomy
Carotid endarterectomy for cerebral ischemia: technical considerations, operative results, 12
Carotid endarterectomy for nonhemispheric transient ischemic attacks, 318
Cerebral function before and after carotid endarterectomy, 427
EEG surveillance as a means of extending operability in high risk carotid endarterectomy, 554
Electroencephalographic surveillance as a means of extending operability in high risk carotid endarterectomy, 12
Evaluation of electroencephalographic monitoring for carotid study, 428
Evaluation of hypocarbia and hypercarbia during carotid endarterectomy, 451
Management of asymptomatic carotid bruits, 429
Operative assessment of carotid endarterectomy: internal carotid arterial back pressure, carotid arterial blood flow, and carotid arteriography, 206
Rapid resolution of venous stasis retinopathy after carotid endarterectomy, 646
Retinal artery emboli. Indications for angiography and carotid endarterectomy, 197
Severe headache after carotid endarterectomy, 204
T-shaped carotid shunt, 309
endocarditis
Cerebral embolism, marantic endocarditis, and cancer, 634
Infective endocarditis in a Sydney teaching hospital — 1962 — 1971, 333
Serratia marcescens endocarditis: a regional illness associated with intravenous drug abuse, 529
Thrombotic thrombocytopenic purpura. Systemic embolization from nonbacterial thrombotic endocarditis, 429
endocrine function
Hypothalamo-pituitary-adrenal function following subarachnoid hemorrhage, 102
endoperoxide
Physiological role of an endoperoxide in human platelets: hemostatic defect due to platelet cyclo-oxygenase deficiency, 206
endothelium
Effect of thiouacil upon canine arterial elastic tissue, 428
Endothelial injury induced by thrombin or thrombi, 198
Scanning electron microscopic observations of common carotid artery endothelium in the rat. I. Crater artifacts, 312
Scanning electron microscopic observations of common carotid artery endothelium in the rat. II. Sutured arteries, 312
energy metabolism
In situ studies of oxidative energy metabolism during transient cortical ischemia in cats, 533
enzymes
Enzymatic destruction of the elastic lamella at the mouth of cerebral berry aneurysm? An ultrastructural study with special regard to the elastic tissue, 640
Intracellular enzyme liberation in primate spinal cord injury, 93
epidemiology
Cerebral angiography in a small county hospital, 200
Cerebral arteriosclerosis in Japanese. Part 4: relationship between lipid content and macroscopic severity of arteriosclerosis, 591
Cerebral arteriosclerosis in Uganda, 404
Components of blood pressure and risk of atherothrombotic brain infarction: the Framingham study, 327
Epidemiology of cerebrovascular disease in Tartu, Estonia, USSR, 1970 through 1973, 187
Geographic differences in mortality from stroke in North Carolina. 1. analysis of death certificates, 41
fat embolism syndrome
Clinical and pathologic correlation of fat embolism syndrome, 96

fats
 Hemodynamic derangement for the induction of cerebrovascular fat deposition in normotensive rats on a hypercholesterolemic diet, 385

fatty acids
 Experimental canine atherosclerosis and its prevention. The dietary induction of severe coronary, cerebral, aortic, and iliac atherosclerosis and its prevention by safflower oil, 635

fibrinogens, plasma
 Blood coagulation and plasma fibrinolytic enzyme system pathophysiology in stroke, 337

fibrinolytic system
 Local alterations of hemostatic-fibrinolytic mechanisms in reforming subdural hematomas, 96

fibromuscular dysplasia
 Fibromuscular dysplasia of the basilar artery. Report of a case, 645

fistulas
 Experiences with intraluminal occlusion with the Fogarty catheter in the treatment of carotid-cavernous sinus fistulas and other lesions at the base of the skull, 100
 Experimental approach to the treatment of carotid cavernous fistulas with an inflatable and isolated balloon, 97
 Intraoperative use of Doppler to detect successful obliteration of carotid-cavernous fistulas. Technical note, 317
 Spontane carotis-cavernous-fistel bei morbus Osler-Rendu (teleangiektasia hereditaria) (spontaneous carotid cavernous fistula in a case of hereditary hemorrhagic telangiectasia [Osler-Rendu]), 101
 Technical contribution to the exact angiographic localization of carotid cavernous fistulas, 638
 Thermography in the management of carotid-cavernous fistulas, 196
 Treatment of vertebrorjugular fistula by balloon occlusion. Case report, 196
 Vertebral artery fistula detected by radionuclide angiography: Case report, 321

flunarizine
 Effect of a new vasodilator (flunarizine) on the cerebral circulation (of cats), 202

focal cerebral ischemia
 Microcirculatory obstruction in focal cerebral ischemia: an electron microscopic investigation in monkeys, 25

follow-up studies
 Fate of stroke patients transferred to a long-term rehabilitaion hospital, 76
 Früh- und spätbefunde nach biobond-beschichtung von intrakraniellen aneurysmen (early and late results after coating intracranial aneurysms with Biobond), 100
 Neurologic outcome of prolonged coma survivors of out-of-hospital cardiac arrest, 279
 Prognosis of patients with middle cerebral artery occlusion, 482
 Prognosis of patients with unilateral extracranial occlusion of the internal carotid artery, 480
 Stroke rehabilitation: factors influencing prognosis and length of stay, 6
 Stroke: does rehabilitation affect outcome?, 314

foot drop
 Biofeedback treatment of foot drop after stroke compared with standard rehabilitation technique (part 2): effects on nerve conduction velocity and spasticity, 637

footdrop
 Biofeedback treatment of foot-drop after stroke compared with standard rehabilitation technique: effects on voluntary control and strength, 98

furomesine
 Randomized double-blind study of furomesin-reserpine in essential hypertension, 309

furosemide
 Cerebrospinal fluid γ-aminobutyric acid levels in migraine, 308
 gallium scanning
 Reliability of gallium brain scanning in the detection and differentiation of central nervous system lesions, 197

gastrointestinal changes
 Acute gastric changes in patients with acute stroke. Part 1: with reference to gastroendoscopic findings, 460
 Acute gastric changes in patients with acute stroke. Part 2: gastroendoscopic findings and biochemical observations of urinary noradrenaline, adrenaline, 17-OHCS and serum gastrin, 464

gaba
 Cerebrospinal fluid γ-aminobutyric acid levels in migraine, 308

INDEX [Epidemiology-gastrointestinal changes]
glucose
Cerebral uptake of glucose and oxygen in the cat brain after prolonged ischemia, 301
Recovery of decreased synaptosomal 2-deoxy-D-[14C]glucose uptake after cerebral ischemia in Mongolian gerbils, 432
Regional cerebral metabolic rate of glucose in rats with brain stem lesions, 5

glycerol
Double-blind trial of glycerol therapy in early stroke, 641
Effects of glycerol administration on experimental brain edema, 528
Effects of glycerol on cerebral ultrastructure following experimentally induced cerebral ischemia, 205
Glycerol in cerebral oedema, 202
Nonketotic hyperosmolar hyperglycemia during glycerol therapy for cerebral edema, 529

glycogen metabolism
Effect of brain ischemia on the levels of cyclic AMP and glycogen metabolism in gerbil brain in vivo, 535

glycosaminoglycans
Cerebral atherosclerosis in Japanese. Part 5: relationship between cholesterol deposition and glycosaminoglycans, 394

grafts
Complications of dermal graft protection of carotid artery, 317
Small arterial substitute: expanded microporous polytetrafluoroethylene: patency versus porosity, 200

grafts, aorto-coronary
Fatal cerebral embolism following aorto-coronary bypass graft surgery, 611

gray matter
Oxygen tension in spinal cord gray matter during exposure to hyperbaric oxygen, 102

guanethidine
Slower turnover of norepinephrine in the brain associated with an acute elevation in blood pressure of rats, 318

H
halothane
In vivo toxic effects of halothane on canine cerebral metabolic pathways, 425

head injury
Acute traumatic intracranial haematoma without skull fracture, 641
Cerebral aneurysms of traumatic origin, 311
Computerized tomography (CT) in acute head trauma, 642
Dynamic changes in regional CBF, intraventricular pressure, CSF pH and lactate levels during the acute phase of head injury, 328
E.M.I. scan in the management of head injuries, 641
Relation between intracranial pressure, mean arterial pressure and cerebral blood flow in patients with severe head injury, 100

headaches
Cluster headaches associated with vascular malformations, 310
Headache in small vessel disease of the brain: a study of patients with systemic lupus erythematosus, 205
Intracranial arteriovenous malformations and headache, 203
Pathogenesis of vascular headache of the migrainous type: the role of impaired central inhibition, 324
Regional cerebral blood flow in the diagnosis of vascular headache, 320
Severe headache after carotid endarterectomy, 204

hematomas
Frontal extradural hematomas, 530

hemiatrophy
Pupillary hemiatrophy in suprarenal nerve lesions, 422

hemiplegia
Blink reflex in hemiplegia, 536
Electrophysiological orthosis for the upper extremity in hemiplegia: feasibility study, 532
Hemiplegic amyotrophy. Muscle and motor point biopsies study, 525

hemispheric specialization
Hemispheric specialization in normal man studied by bilateral measurements of the regional cerebral blood flow: A study with the ¹³³Xe inhalation technique, 322

hemophilia
Intrakranielle und spinale Blutungen bei hämophilie (Intracranial and spinal hemorrhage in haemophilia), 430

hemorrhage
Acute hemorrhagic cerebellar infarction following angiography, 636
Angiographic extravasation of contrast medium in hemorrhagic infarction: case report, 614
Caution to brain scientists: unsuspected hemorrhagic vascular damage resulting from mere electrode implantation, 335
Cerebellar hemorrhage: reliability of clinical evaluation, 332
Cerebral haemorrhages with atypical clinical patterns. Study of cerebral haematomas using CSF spectrophotometry and computerized transverse axial tomography ("EMI scanning"), 202
Cerebral hemorrhage following heart surgery, 423
Complications neurologiques des anticoagulants (Neurological complications of anticoagulants), 425
Congophilic angiopathy complicated by surgery and massive hemorrhage: a light and electron microscopic study, 428
Continuous vertical pendular eye movements after brain-stem hemorrhage, 199
Diplopia and involuntary eye closure in spontaneous cerebellar hemorrhage, 303
Electron microscopic study of plasmatic arterionecrosis in the human cerebral arteries, 645
Intracerebral haemorrhage: accuracy of computerised transverse axial scanning in predicting the underlying aetiology, 425
Intracranial bleeding associated with urokinase therapy for acute ischemic hemispheric stroke, 143
Intrakranielle und spinale Blutungen bei hämophilie (Intracranial and spinal hemorrhage in haemophilia), 430
Intravital hemorrhage associated with rapid increase in intracranial pressure (Terson's syndrome), 201
Primary non-traumatic intracranial hemorrhage: a municipal emergency hospital viewpoint, 608
Spontaneous extradural haematomas, 99
Surgical treatment of primary intracerebral hemorrhage. Part 1: new angiographical classification, 30
hemorrhage, cerebral
Concurrence of iris aneurysms and cerebral hemorrhage in hypertensive rabbits, 525
hemorrhage, intracerebral
Computed tomography: the "resolving" intracerebral hemorrhage, 529
Indications for surgical treatment of intracerebral hemorrhage, 316
hemorrhage, subarachnoid
Acute subarachnoid hemorrhage, 203
Cardiac arrhythmias in acute central nervous system disease: successful management with stellate ganglion block, 432
Cerebrospinal fluid creatine phosphokinase in acute subarachnoid hemorrhage, 420
Characteristics and limits of tolerance in repeated subarachnoid hemorrhage in dogs, 428
Hypothalamo-pituitary-adrenal function following subarachnoid hemorrhage, 102
Lethal mechanism in repeated subarachnoid hemorrhage in dogs, 429
Management of ischemic complications after subarachnoid hemorrhage, 316
Pathophysiological aspects of acute state patients with ruptured intracranial aneurysms. Part II: relationships between neurological prognosis and sequential changes of cerebral blood flow dynamics, 421
Subarachnoid haemorrhage in pseudoxanthoma elasticum, 199
Subarachnoid hemorrhage due to lateral ventricular meningiomas, 312
Subarachnoid hemorrhage: association with unusual electrocardiographic changes, 319
hemostasis Drugs affecting platelet function tests: their effects on haemostasis and surgical bleeding, 432
heparin Scanning electron microscopic observations of the common carotid artery of the rat. III. Heparin effect on platelets, 635
Transient paraplegia from hematoma after lumbar puncture: a consequence of anticoagulant therapy, 430
histamines Role of histamine in posttraumatic spinal cord hyperemia and the luxury perfusion syndrome, 420
Significance of histamine H1 and H2 receptors on the carotid vascular bed in the dog, 96
hospital planning Cranial computed tomography: an evaluation of cost effectiveness, 315
Report of the joint committee for stroke facilities XIII. Cerebral metabolism in stroke, 211
hydergine Sinus bradycardia following treatment with hydergine for cerebrovascular insufficiency, 320
hydrocephalus Moyamoya syndrome probably associated with hydrocephalus, 97
hydrogen clearance method Spinal cord blood flow measured by a hydrogen clearance technique, 322
hypercapnia Transient responses of cerebral blood flow and ventilation to changes in PaCO2 in normal subjects and patients with cerebrovascular disease, 584
hypercarbia Evaluation of hypocarbia and hypercarbia during carotid endarterectomy, 451
hypercholesterolemia Hemodynamic derangement for the induction of cerebrovascular fat deposition in normotensive rats on a hypercholesterolemic diet, 385
hyperemia Role of histamine in posttraumatic spinal cord hyperemia and the luxury perfusion syndrome, 420
hyperglycemia Nonketotic hyperglycemic hypsromolar coma. Report of neurological cases with a review of mechanisms and treatment, 632
Nonketotic hyperosmolar hyperglycemia during glycerol infusion, 103
hypertension Autoregulation of cerebral blood flow in hypertensive patients. Modifying influence of prolonged antihypertensive treatment on the tolerance to acute, drug-induced hypertension, 644
Circulating catecholamine levels in human and experimental hypertension, 524
Clonidine in treatment of hypertension, 309
Concurrence of iris aneurysms and cerebral hemorrhage in hypertensive rabbits, 525
Disturbed consciousness and intracranial hypertension following ruptured intracranial aneurysms, 313
Effect of systemic arterial blood pressure on cerebral blood flow in intracranial hypertension, 527
Effects of hypertension on postischemic brain injury in mongolian gerbils, 4
Evidence against cerebral vasospasm during acutely induced hypertension, 535
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 1: pathophysiology, electroencephalography, cerebral blood flow, blood-brain barrier, and neurological function, 195
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 2: brain morphology, 196
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 3: brain energy metabolism, 196
How does blood-pressure cause stroke?, 425
Hypertension as an important factor for cerebrovascular atherogenesis in rats, 120
Increased cerebral blood volume in benign intracranial hypertension, 96
Ischaemic brain damage of cerebral perfusion failure type after treatment of severe hypertension, 430
Prognosis of occlusive cerebrovascular diseases in normotensive and hypertensive subjects, 472
Salt, volume and the prevention of hypertension, 643
Studies on the cerebral circulation of the baboon in acutely induced hypertension, 287
Upper limit of cerebral blood flow autoregulation in experimental renovascular hypertension in the baboon, 100
hypertension, acute Steroid response to acute hypertension and its relation to cerebrovascular damage, 4
Ultrastructural studies on cerebrovascular permeability in acute hypertension, 310
hypertension, arterial Cerebral vasospasm, arterielle hypertension und hirnodem (Cerebral vasospasmy, arterial hypertension and brain edema), 534
Effects of increased arterial pressure on blood flow in the damaged brain, 311
Sodium nitroprusside treatment of severe arterial hypertension in children, 322
hypertension, essential Adrenergic β-receptor blockade in essential hypertension: A comparison between pindolol (visken®) and propranolol (inderal®), 309
Randomized double-blind study of furosemide-reserpine in essential hypertension, 309
hypertension, systemic Hypertensive diseases. Evidence that systemic hypertension is a greater risk factor to the development of other cardiovascular diseases than previously suspected, 309
hyperventilation Effect of hyperventilation on dynamics of cerebral energy metabolism, 93
Effects of hyperventilation, CO2, and CSF pressure on internal carotid blood flow in the baboon, 633
Facilitation through hyperventilation of therapeutic effect of pyrithioxin in cerebral infarct patients, 103
hypocapnia Paradoxical dilatation of the large cerebral arteries in hypocapnia in man, 569
hypocarbia Evaluation of hypocarbia and hypercarbia during carotid endarterectomy, 451
hypoglycemia Effort headache with cerebral infarction, 203
hypotension Alterations in cerebral blood flow produced by hypotension: a comparison of methods, 319
Autoregulation of cerebral blood flow in hypertensive patients. Modifying influence of prolonged antihypertensive treatment on the tolerance to acute, drug-induced hypertension, 644
Changes in local cerebral blood flow following profound systemic hypotension, 529
Effects of carotid hypotension on aortic hemodynamics in the unanesthetized dog, 426
How often are brain infarcts caused by hypotensive episodes?, 255
Idiopathic orthostatic hypotension controlled with a monoamine oxidase inhibitor and 9-alpha-fluorohydrocortisone, 532
Orthostatic hypotension associated with paroxysmal ventricular tachycardia, 311
Orthostatic hypotension: mechanisms and management, 205
Pyramidal tract responses (PTR) during hypoxia and hypotension, 300
hypothalamus
Evidence for a dual innervation affecting local blood flow in the hypothalamus of the conscious rabbit, 644
Hypothalamic dysfunction and intracranial arterial spasms, 426
Hypothalamo-pituitary-adrenal function following subarachnoid hemorrhage, 102
hypothermia
Cerebral effects of profound hypothermia (180°C) and circulatory arrest, 194
Protective effect of hypothermia in cerebral oxygen deficiency caused by arterial hypoxia, 531
hypoxia
Brain extracellular potassium activity during hypoxia in the cat, 318
Brief hypoxia-ischemia initially damages cerebral neurons, 94
Changes in cortical subarachnoid fluid potassium concentrations during hypoxia, 531
Delayed encephalopathy after strangling, 525
Heterogeneities of regional cerebral blood flow during hypoxia-ischemia in the rat, 132
Hypoxic-ischemic leuкоencephalopathy in man, 419
Protective effect of hypothermia in cerebral oxygen deficiency caused by arterial hypoxia, 531
Pyramidal tract responses (PTR) during hypoxia and hypotension, 500
infarction
Acute confusional states with right middle cerebral artery infarction, 640
Acute hemorrhagic cerebellar infarction following angiography, 636
Analysis of intellectual and cognitive performance in patients with multi-infarct dementia, vertebralbasilar insufficiency with dementia, and Alzheimer’s disease, 99
Angiographical extravasation of contrast medium in hemorrhagic infarction: case report, 614
Angiography in postrecanalized cerebral infarction, 321
Aphasia with infarction in the territory of the anterior cerebral artery, 432
Cerebral infarction diagnosis by computerized tomography. Analysis and evaluation of findings, 204
Cerebral infarction following bilateral carotid artery ligation in normotensive and spontaneously hypertensive rats: a pathological study, 54
Cerebral infarction in the Mongolian gerbil exacerbated by phenoxycbenzamine treatment, 485
Comparison of papaverine and decadron to decadron and dexamethasone and DMSO in experimental transorbital cerebral infarction, 577
Complications neurologiques des anticoagulants (Neurological complications of anticoagulants), 425
Components of blood pressure and risk of atherothrombotic brain infarction: the Framingham study, 327
Correlation between regional cerebral blood flow and EEG frequency in the contralateral hemisphere in acute cerebral infarction, 205
Dexamethasone and DMSO in experimental transorbital cerebral infarction, 577
Differentialdiagnose des Schlaganfalles in computer-tomogramm, 644
Effort headache with cerebral infarction, 203
Electrocardiogram in infratentorial infarcts, 205
Facilitation through hyperventilation of therapeutic effect of pyridoxin in cerebral infarct patients, 205
How often are brain infarcts caused by hypotensive episodes?, 255
Neurologic manifestations of intravascular coagulation in patients with cancer. A clinicopathologic analysis of 12 cases, 198
Occipital to cerebellar artery anastomosis for brain stem infarction from vertebralbasilar occlusive disease, 13
Paroxysmal “nightmares.” Sequel of a stroke responsive to diphenylhydantoin, 318
Patterns of changes of blood flow and relationships to infarction in experimental cerebral ischemia, 454
Pilot study of urokinase therapy in cerebral infarction, 135
Predicting the outcome of stroke: acute stage after cerebral infarction, 198
Prevention of cerebral infarction in the dog by intact omentum, 308
Pure motor hemiplegia due to pyramidal infarction, 194
Recent ischemic brain infarcts at computed tomography: appearances pre- and postcontrast infusion, 424
Respiratory rate and pattern disturbances in acute brain stem infarction, 382
Steroid therapy in acute cerebral infarction, 424
Temporal profile (clinical course) of acute carotid system cerebral infarction, 64
insufficiency, carotid
Evaluation of carotid and vertebralbasilar insufficiency by Doppler ultrasound scanning, 2
insufficiency, cerebrovascular
Klinische bedeutung von blutviskositatsveranderungen im rahmen der cerebrovaskularen insuffizienz (Clinical significance of changes in blood viscosity in cerebrovascular insufficiency), 420
insufficiency, vertebralbasilar
Analysis of intellectual and cognitive performance in patients with multi-infarct dementia, vertebralbasilar insufficiency with dementia, and Alzheimer’s disease, 99
Evaluation of carotid and vertebralbasilar insufficiency by Doppler ultrasound scanning, 2
intact omentum
Prevention of cerebral infarction in the dog by intact omentum, 308
intensive care units
Intensive care management of stroke patients, 573
intracranial bleeding
Intracranial bleeding associated with urokinase therapy for acute ischemic hemispheric stroke, 143
intraparenchymal embolization
Intraparenchymal embolization: a new technique for obliteration of an intramedullary arteriovenous malformation of the spinal cord, 6
ischemia
Autoregulation in acute focal ischemia: an experimental study, 547
Brief hypoxia-ischemia initially damages cerebral neurons, 94
Carotid endarterectomy for cerebral ischemia: technical considerations, operative results, 12
Cerebral blood flow. A predictor of recovery from ischemia in the gerbil, 94
Cerebral circulation after cardiac arrest — angiographic and carbon black perfusion studies, 422
Cerebral ischemia in gerbils: differential vulnerability of protein, RNA, and lipid synthesies, 260
Cerebral uptake of glucose and oxygen in the cat brain after prolonged ischemia, 301
Classification of experimental models of brain ischemia, 14
Comparison of local blood flow and oxygen availability at the same locus in the ischemic gerbil brain, 274
Delayed encephalopathy after strangling, 525
Effect of barbiturates on synaptosomal ATPase following ischemia, 4
Effect of brain ischemia on the levels of cyclic AMP and glyco- gen metabolism in gerbil brain in vivo, 535
Effects of glycerol on cerebral ultrastructure following experimentally induced cerebral ischemia, 205
Effects of hypertension on postischemic brain injury in mongolian gerbils, 4
Effects of ischemia on the Mg++ requiring adenosine triphos- phatase associated with neuronal synaptic vesicles in gerbil brain, 36
Experimental cerebral ischemia in Mongolian gerbils. I. Light microscopic observations, 310
Experimental cerebral ischemia in Mongolian gerbils. II. Changes in carbohydrates, 535
INDEX

Experimental cerebral ischemia in Mongolian gerbils. III. Behaviour of the blood-brain barrier, 645
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 1: pathophysiology, electroencephalography, cerebral blood flow, blood-brain barrier, and neurological function, 195
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 2: brain morphology, 196
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 3: brain energy metabolism, 196
Experimental cervical myelopathy. Effects of ischemia and compression of the canine cervical spinal cord, 93
Fluorescein angiography in carotid ischaemia, 431
Hypoxic-ischemic leukoencephalopathy in man, 419
Intracranial bleeding associated with urekinase therapy for acute ischemic hemispherical stroke, 143
Ischaemic brain damage in the gerbil in the absence of "no-reflow", 527
Ischaemic brain damage of cerebral perfusion failure type after treatment of severe hypertension, 430
Ischaemic optic neuropathy: the clinical profile and natural history, 433
Ischaemic swelling of cerebral hemisphere in the gerbil, 527
Ischemia of ciliary arterial circulation from ocular compression, 422
Ischemic brain edema and compression brain edema: water content, blood-brain barrier and circulation, 77
Ischemic papilledema in giant-cell arteritis. Mucopolysaccharide deposition with normal intraocular pressure, 643
Isolated ophthalmic migraine in the differential diagnosis of acute ischemic hemispherical stroke, 143
Ischaemic brain damage in the gerbil in the absence of "no-reflow", 527
Ischaemic brain damage of cerebral perfusion failure type after treatment of severe hypertension, 430
Ischaemic optic neuropathy: the clinical profile and natural history, 433
Ischaemic swelling of cerebral hemisphere in the gerbil, 527
Ischemia of ciliary arterial circulation from ocular compression, 422
Ischemic brain edema and compression brain edema: water content, blood-brain barrier and circulation, 77
Ischemic papilledema in giant-cell arteritis. Mucopolysaccharide deposition with normal intraocular pressure, 643
Isolated ophthalmic migraine in the differential diagnosis of acute ischemic hemispherical stroke, 143
Management of ischemic complications after subarachnoid hemorrhage, 316
Measurement of jugular venous blood gases for prediction of brain ischaemia following carotid ligation: a comparison with direct measurements of cerebral blood flow, 533
Mechanisms of postschismic brain edema: contribution of circulatory factors, 410
Microcirculatory obstruction in focal cerebral ischemia: an electron microscopic investigation in monkeys, 25
Microcirculatory obstruction in focal cerebral ischemia. Relationship to neuronal alterations, 102
Neurogenic regulation of cerebral blood flow following ischemia, 113
Neuronal function and local blood flow during experimental cerebral ischemia, 5
On the importance of the anterior cerebral artery (Letter), 523
Pathophysiology of barbiturate protection in focal ischemia, 469
Patterns of changes of blood flow and relationships to infarction in experimental cerebral ischemia, 454
Putative neurotransmitters and cyclic nucleotides in prolonged ischemia of the cerebral cortex, 322
Recent ischemic brain infaracts at computed tomography: appearances pre- and postcontrast infusion, 424
Recovery of decreased synaptosomal 2-deoxy-D-glucose uptake after cerebral ischemia in Mongolian gerbils, 432
Resuscitation of the monkey brain after one hour complete ischemia. III. Indications of metabolic recovery, 314
Similarities in biochemical effects of cerebral ischemia in patients with cerebrovascular disease (CVD) and migraine, 4
In situ studies of oxidative energy metabolism during transient cortical ischemia in cats, 533
Ischemia
Heterogeneities of regional cerebral blood flow during hypoxia-ischemia in the rat, 132
Ischemic optic neuropathy
Ischemic papilledema in giant-cell arteritis. Mucopolysaccharide deposition with normal intraocular pressure, 643
Isoproterenol
Pharmacological control of local oxygen regulation mechanisms in brain tissue, 469
Isotopes
Scintillation camera studies of isotope flow in arteriovenous malformations, 105
Ivalon
Polyvinyl alcohol (Ivalon) — a new embolic material, 450
Jaundice
Abnormal cerebrovascular response to altered Paco 2 in baboons with obstructive jaundice, 190
Joint meeting on stroke and cerebral circulation
Abstracts for the joint meeting on stroke and cerebral circulation, February 27-28, 1976, 1
Jugular vein
Platelet-bound and free serotonin levels in jugular and forearm venous blood during migraine, 528
Kimura disease
Juvenile temporal arteritis: biopsy study of four cases, 321
Krypton
Brain-blood partition coefficients of krypton at 37 C and 29.5 C, 624
Language disturbances
Brain specialization for language does not depend on literacy, 634
Lateral medullary syndrome
Lateral medullary syndrome in a child: arteriographic confirmation of vertebral artery occlusion, 430
Lesions
Activation of the extracranial atherosclerotic lesion, 10
Acute gastric changes in patients with acute stroke. Part 1: with reference to gastroendoscopic findings, 460
Acute gastric changes in patients with acute stroke. Part 2: gastroendoscopic findings and biochemical observations of urinary noradrenaline, adrenaline, 17-OHCS and serum gastrin, 464
Anterior inferior cerebellar artery in mass lesions. Preliminary findings with emphasis on the lateral projection, 638
Barbiturate attenuation of the clinical course and pathologic lesions in a primate stroke model, 199
Brain specialization for language does not depend on literacy, 634
Computer assisted axial tomography in cerebrovascular lesions, 203
Diseases of the central nervous system: cerebral atherosclerosis, transient ischaemic attacks, Menière's disease, and disorders of balance, 320
Evaluation of intracranial disorders in children by computerized transaxial tomography: a preliminary report, 95
Experiences with intraluminal occlusion with the Fogarty catheter in the treatment of carotid-cavernous sinus fistulae and other lesions at the base of the skull, 100
Hemodynamic basis of athrotherosclerosis. Further observations: the bifurcation lesion, 433
How does blood-pressure cause stroke?, 425
Inhibition of injury induced thromboatherosclerotic lesions by anti-platelet serum in rabbits, 636
Is atheroma a reversible lesion?, 639
Noninvasive and arteriographic diagnosis of hemodynamically significant carotid lesions, 2
Observations on cortical blindness and on vascular lesions that cause loss of recent memory, 99
Papillary hemiakinesia in suprageniculate lesions, 422
Regional cerebral metabolic rate of glucose in rats with brain stem lesions, 5
Regression of injury-induced atheromatous lesions in rabbits, 643
Reliability of gallium brain scanning in the detection and differentiation of central nervous system lesions, 197
Stroke: what's new? Cerebral revascularization, 536
Temporal effect of reticular formation lesions on rat regional cerebral blood flow, 7
Therapeutic percutaneous embolization for extra-axial vascular lesions of the head, neck, and spine, 195

leukoen cephalopathy

Hypoxic-ischemic leukoencephalopathy in man, 419

Levodopa

Levodopa-enhanced recovery from paralysis induced by air embolism, 526

lidocaine

Cardiac arrhythmias in acute central nervous system disease: successful management with stellate ganglion block, 432

Topical lidocaine in treatment of cerebral vasospasm, 98

ligation

Cerebral infarction following bilateral carotid artery ligation in normotensive and spontaneously hypertensive rats: a pathological study, 54

Measurement of jugular venous blood gases for prediction of brain ischaemia following carotid ligation: a comparison with direct measurements of cerebral blood flow, 533

lipid synthesis

Cerebral ischemia in gerbils: differential vulnerability of protein, RNA, and lipid syntheses, 260

lipids

Blood-brain barrier permeability of 14C-labeled alcohols and 14C-labeled water, 642

Cerebral atherosclerosis in Japanese. Part 4: relationship between lipid content and macroscopic severity of atherosclerosis, 591

Cerebral atherosclerosis in Japanese. Part 5: relationship between cholesterol deposition and glycosaminoglycans, 594

Serum lipid changes following the completed stroke syndrome, 103

lipoproteins

Apolipoprotein localization in human cranial arteries, coronary arteries, and the aorta, 390

lumbar puncture

Transient paraplegia from hematoma after lumbar puncture: a study of mechanisms and treatment, 195

lupus erythematosus

Cerebral disorders of vision in systemic lupus erythematosus, 197

Headache in small vessel disease of the brain: a study of patients with systemic lupus erythematosus, 205

luxury perfusion syndrome

Role of histamine in posttraumatic spinal cord hyperemia and the luxury perfusion syndrome, 420

M

mammitol

Nonketotic hyperglycemic hyperamoloma. Report of neurosurgical cases with a review of mechanisms and treatment, 652

memory loss

Observations on cortical blindness and on vascular lesions that cause loss of recent memory, 99

menière’s disease

Diseases of the central nervous system: cerebral atherosclerosis, transient ischemic attacks, Meniere’s disease, and disorders of balance, 520

microscopy

Reversal of advanced atherosclerosis in rhesus monkeys. Part 1. Light-microscopic studies, 639

microspheres

Use of 99mTc-labeled albumin microspheres in cerebral vascular disease, 432

microsurgery

Arteriovenous malformations of the anterior and the middle portions of the corpus callosum: microsurgical treatment, 530

Arteriovenous malformations of the splenium of the corpus callosum: microsurgical treatment, 529

Complete microsurgical excision of cervical extramedullary and intramedullary vascular malformations, 311

Microsurgical anatomy of the anterior cerebral-anterior communicating-Heubner artery complex, 10

Neurovascular microsurgery. A model for laboratory investigation and the development of technical skills, 635

Scanning electron microscopic observations of common carotid artery endothelium in the rat. II. Sutured arteries, 312

Surgical anatomy of the proximal anterior cerebral artery, 634

Vascular clips for the microsurgical treatment of stroke, 489

migraine

Basilar artery migraine in young children, 319

Cerebrospinal fluid γ-aminobutyric acid levels in migraine, 308

Changes in cerebral blood flow during a migraine attack, 318

Die ophalmomplegeische migraine (Ophthalmpolegic migraine), 429

Isolated ophthalmic migraine in the differential diagnosis of cerebro-ocular ischemia, 379

Pathogenesis of vascular headache of the migrainous type: the role of impaired central inhibition, 204

Platelet dysfunction in migraine and effect of self-medication with aspirin, 11

Platelet-bound and free serotonin levels in jugular and forearm venous blood during migraine, 528

Short-term clinical trial of propranolol in racem form (Inderal), D-propranolol and placebo in migraine, 640

Similarities in biochemical effects of cerebral ischemia in patients with cerebrovascular disease (CVD) and migraine, 4

mongolian gerbils

Effects of hypertension on postischemic brain injury in mongolian gerbils, 4

monitoring procedures

Blood gas and carotid pressure: factors in stroke risk, 5

EEG surveillance as a means of extending operability in high-risk carotid endarterectomy, 554

Electroencephalographic surveillance as a means of extending operability in high risk carotid endarterectomy, 12

Evaluation of electroencephalographic monitoring for carotid study, 428

High pacemaker implantation rate following “cardiogenic neurology.” Results in 129 consecutively paced patients, 535

Long-term EKG monitoring in patients with cerebrovascular insufficiency, 204

Quantitative respiratory monitoring in acute stroke, 5

T-shaped carotid shunt, 309

monoamines

Idiopathic orthostatic hypotension controlled with a monoamine oxidase inhibitor and 9-alpha-fluorohydrocortisone, 532

moyamoya syndrome

Adult arteriosclerotic moyamoya, 529

Autopsy cases of moyamoya disease, 314

Brain scan in cerebrovascular “moyamoya” disease, 204

Fibromuscular dysplasia and multiple dissecting aneurysms of intracranial arteries: a further cause of Moyamoya syndrome, 393

Moyamoya syndrome and the neurosurgeon, 312

Moyamoya syndrome probably associated with hydrocephalus, 97

Regional cerebral blood flow on cerebrovascular “moyamoya” disease — study by 133Xe clearance method and cerebral angiography, 312

muscle atrophy

Hemiplegic myopathy. Muscle and motor point biopsy study, 325

myelopathy

Experimental cervical myelopathy: autoradiographic studies of spinal cord blood flow patterns, 636

myelopathy, cervical

Experimental cervical myelopathy. Effects of ischemia and compression of the canine cervical spinal cord, 93

Some aspects of the spinal cord circulation in cervical myelopathy, 200
Acute gastric changes in patients with acute stroke. Part 2: gas-

No-reflow phenomenon in the cerebral circulation of the gerbil,

Nicotine-induced relaxation in isolated canine cerebral

Sodium nitroprusside treatment of severe arterial hyper-

Paroxysmal “nightmares.” Sequel of a stroke responsive to

Central cholinergic control of cerebral blood flow in dogs, 7

Neurogenic cerebral vasodilatation from electrical stimulation of the
cerebellum in the monkey, 179

Neurogenic regulation of cerebral blood flow following ischemia, 113

Neuronal function

Neuronal function and local blood flow during experimental
cerebral ischemia, 5

neuronal synaptic vesicles

Effects of ischemia on the Mg2+ requiring adenosine triphos-
phatase associated with neuronal synaptic vesicles in gerbil
brain, 36

neurons

Brief hypoxia-ischemia initially damages cerebral neurons, 94

neuropathy, ischemic optic

Ischaemic optic neuropathy: the clinical profile and natural
history, 433

neuroradiology

Radiation dose to the eyes of the patient during neuroradi-
ological investigations, 326

neurosurgery

Complete microsurgical excision of cerebral extramedullary and
intramedullary vascular malformations, 311

Intracranial neurosurgical treatment of occlusive cerebro-
vascular disease, 348

Microsurgical anatomy of the anterior cerebral-anterior com-

nicating-Heubner artery complex, 10

Moyamoya syndrome and the neurosurgeon, 312

Neurosurgical anoxia, 205

Surgical anatomy of the proximal anterior cerebral artery, 634

Vascular clips for the microsurgical treatment of stroke, 489

neurotransmitter function

Influence of adrenergic receptor blockade on circulatory and
metabolic effects of disordered neurotransmitter function in stroke patients, 158

neurotransmitters

Pathogenesis of vascular headache of the migrainous type: the
role of impaired central inhibition, 204

Putative neurotransmitters and cyclic nucleotides in prolonged
ischemia of the cerebral cortex, 322

nicotine

Nicotine-induced relaxation in isolated canine cerebral
arteries, 203

nightmares

Paroxysmal “nightmares.” Sequel of a stroke responsive to
diphenylhydantoin, 318

nitroprusside

Sodium nitroprusside treatment of severe arterial hyper-
tension in children, 322

no-reflow phenomenon

Ischaemic brain damage in the gerbil in the absence of “no-
reflow”, 527

No-reflow phenomenon in the cerebral circulation of the gerbil, 527

noradrenaline

Acute gastric changes in patients with acute stroke. Part 2: gas-
troendoscopic findings and biochemical observations of urinary noradrenalin, adrenaline, 17-OHCS and serum gastrin, 464

noradrenaline

Responses of isolated human basilar arteries to 5-hydroxy-
tryptamine, noradrenaline, serum, platelets, and erythro-
cytes, 310

norepinephrine

Alpha-receptor stimulation by endogenous and exogenous
norepinephrine and blockade by phentolamine in pial arteries of cats, 100

Analysis of the insensitivity of cerebral arteries to nerve stimula-
tion and exogenous norepinephrine (NE), 9

Pial arteriolar responses in the mouse brain revisited, 283

Slower turnover of norepinephrine in the brain associated with an
acute elevation in blood pressure of rats, 318

nucleotides

Putative neurotransmitters and cyclic nucleotides in prolonged
ischemia of the cerebral cortex, 322

nystagnus

Positional vertigo, 317

occipital lobes

Electrophysiological parameters in the evaluation of occipital
apoplexy, 317

Regional cerebral blood flow in delayed brain swelling follow-
ing x-irradiation of the right occipital lobe in the monkey, 314

occlusion

Accuracy of the suprachoroidal Doppler examination in the diag-
nosis of hemodynamically significant carotid occlusive disease, 526

Analysis of brain scan in patients with internal carotid arterial
occlusion, 319

Aqueductal occlusion by midline arteriovenous malformation, 530

Catecholamine content of cerebral tissue after occlusion or
manipulation of middle cerebral artery in cats, 97

Changes in regional cortical tissue oxygen tension and cere-
bral blood flow during temporary middle cerebral artery occlusion in baboons, 431

Cilioretinal arterial circulation in central retinal vein occlu-
sion, 520

Effect of anticoagulants and inhibitors of platelet aggregation on thrombotic occlusion of endarterectomized carotid arteries, 248

Effects of carotid hypotension on aortic hemodynamics in the
unanesthetized dog, 426

Embolic occlusion of the superior and inferior divisions of the middle cerebral artery with angiographic-clinical correla-
tion, 643

Embolic posterior cerebral artery occlusion secondary to spon-
dylitic vertebral artery compression. Case report, 317

Experiences with intraluminal occlusion with the Fogarty
catheter in the treatment of carotid-cavernous sinus fistulas and other lesions at the base of the skull, 100

Experimental cerebral ischemia in Mongolian gerbils. II. Changes in carbohydrates, 535

Extracranial-intracranial arterial bypass in the treatment of
dementia and multiple extracranial arterial occlusion, 13

Indications for surgical treatment of extracranial carotid
occlusive disease, 12

Influence of changes in arterial CO2 and blood pressure on the
collateral circulation and the regional perfusion pressure in
monkeys with occlusion of the middle cerebral artery, 529

Intracranial neurosurgical treatment of occlusive cerebro-
vascular disease, 348

Intracranial pressure, blood pressure, and pulse rate after oc-
cclusion of a middle cerebral artery in cats, 316

Jugular venography for evaluation of abnormalities of the skull
base, 632
INDEX

Lateral medullary syndrome in a child: arteriographic confirmation of vertebral artery occlusion, 430
Method for measuring brain tissue pressure. Response to alteration in PCO2, systemic blood pressure, and middle cerebral artery occlusion, 96
New sign of occlusion of the origin of the internal carotid artery, 546
Noninvasive diagnosis of carotid occlusion of ocular pneumoplethysmography, 18
Occipital to cerebellar artery anastomosis for brain stem infarction from vertebrobasilar occlusive disease, 13
Oclusive retinal arterioliitis with neovascularization, 645
Ophthalmodynamometry in internal carotid artery occlusion, 564
Prognosis of occlusive cerebrovascular diseases in normotensive and hypertensive subjects, 472
Prognosis of patients with middle cerebral artery occlusion, 482
Prognosis of patients with unilateral extracranial occlusion of the internal carotid artery, 480
Proximal occlusion of the anterior cerebral artery for anterior communicating aneurysm, 316
Pyridine nucleotide redox state and blood flow of the cerebral cortex following middle cerebral artery occlusion in the cat, 125
Role of cerebral angiography in vertebrobasilar occlusive disease, 99
Spontanverlauf und prognose einseitiger carotisverschlusse (Course and prognosis of unilateral carotid artery occlusion), 427
Stroke: what's new? Cerebral revascularization, 643
Surgical repair of the occluded carotid artery, 12
Treatment of vertebraljugular fistula by balloon occlusion. Case report, 196
Vascular occlusions in the eye from cardiac myxomas, 206
Vertebral artery occlusion and oral contraceptives, 637
Visual field changes in branch retinal 'vein' occlusion, 643
occlusion, middle cerebral artery
Recovery of the cortical evoked response following temporary middle cerebral artery occlusion in baboons: relation to local blood flow and P O2, 151
ocular compression
Ischemia of ciliary arterial circulation from ocular compression, 422
oligemia
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 1: pathophysiology, electrophysiology, cerebral blood flow, blood-brain barrier, and neurological function, 195
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 2: brain morphology, 196
Experimental cerebral oligemia and ischemia produced by intracranial hypertension. Part 3: brain energy metabolism, 196
omentum, intact
Prevention of cerebral infarction in the dog by intact omentum, 308
open-heart surgery
Brain damage after open-heart surgery, 204
ophthalmodynamometry
Bruits, ophthalmodynamometry and rectilinear scanning on transient ischemic attacks, 541
Ophthalmodynamometry in internal carotid artery occlusion, 564
ophthalmoplegia
Die ophthalmoplegische migraine (Ophthalmoplegic migraine), 429
Orbital phlebography in the diagnosis of painful ophthalmoplegia, 190
ophthalmosonometry
Use of ophthalmosonometry in the diagnosis of carotid stenosis, 2
optic neuropathy
Ischaemic optic neuropathy: the clinical profile and natural history, 433
optic neuropathy, ischemic
Ischemic papilledema in giant-cell arteritis. Mucopolysaccharide deposition with normal intraocular pressure, 463
orthosis
Electrophysiological orthosis for the upper extremity in hemiplegia: feasibility study, 532
osler-rendu disease
Spontaneous carotis-cavernous-fistel bei morbus Osler-Rendu (teleangiektasia hereditaria) (spontaneous carotid cavernous fistula in a case of hereditary hemorrhagic telangiectasia "Osler-Rendu"), 101
oxidative metabolism
In situ studies of oxidative energy metabolism during transient cortical ischemia in cats, 533
Veränderungen von durchblutung und oxydativem stoffwechsel des gehirns bei patienten mit einer demenz (Blood flow and oxidative metabolism in the brain in patients with dementia), 534
oxygen
Central necrosis of the spinal cord induced by hyperbaric oxygen exposure, 101
Cerebral uptake of glucose and oxygen in the cat brain after prolonged ischemia, 301
Comparison of local blood flow and oxygen availability at the same locus in the ischemic gerbil brain, 274
Oxygen tension in spinal cord gray matter during exposure to hyperbaric oxygen, 102
Pharmacological control of local oxygen regulation mechanisms in brain tissue, 469
Regulation of local tissue P O2 of the brain cortex at different arterial O2 pressures, 308
Relationship between adenosine concentration and oxygen supply in rat brain, 95
oxygen consumption
Continuous inhalation of oxygen-15 for assessing regional oxygen extraction in the brain of man, 637
In vivo toxic effects of halothane on canine cerebral metabolic pathways, 425
Oxygen availability and blood flow in the temporal lobes during spontaneous epileptic seizures in man, 431
Protective effect of hypothermia in cerebral oxygen deficiency caused by arterial hypoxia, 531
oxygen metabolism
Effects of increased intracranial pressure on cerebral blood volume, blood flow, and oxygen utilization in monkeys, 315
oxygen supply
Comparison of vascular reactivity in spinal cord and brain, 560
oxygen tension
Changes in regional cortical tissue oxygen tension and cerebral blood flow during temporary middle cerebral artery occlusion in baboons, 431
Measurements of oxygen tension in the cerebral cortex of baboons, 431
P
pacing and pacemakers
High pacemaker implantation rate following "cardiogenic neurology." Results in 129 consecutively paced patients, 535
paco2
Abnormal cerebrovascular response to altered Paco2 in baboons with obstructive jaundice, 190
papaverine
Comparison of papaverine and decadron to decadron and dexamethasone following "cardiogenic neurology," 6
Dynamic response of the intracranial system in the conscious dog to papaverine hydrochloride, 618
papilledema
Ischemic papilledema in giant-cell arteritis. Mucopolysaccharide deposition with normal intraocular pressure, 643
paradoxical emboli
Paradoxical embolism. A diagnostic challenge and its detection during life, 643
paralysis
Blink reflex in hemiplegia, 536
Electrophysiological orthosis for the upper extremity in hemiplegia: feasibility study, 532
Hemiplegic amytrophy: Muscle and motor point biopsy study, 525
Leverdox-enhanced recovery from paralysis induced by air embolism, 526
Peroneal nerve stimulator in rehabilitation of hemiplegic patients, 98
Pure motor hemiplegia due to pyramidal infarction, 194
Stroke in a 15-year-old girl secondary to terminal carotid dissection, 98
paraplegia
Transient paraplegia from hematoma after lumbar puncture: a consequence of anticoagulant therapy, 430
patient care
Comparison of two systems for stroke rehabilitation in a general hospital, 635
Intensive care management of stroke patients, 573
pc
Method for measuring brain tissue pressure. Response to alteration in Pco2, systemic blood pressure, and middle cerebral artery occlusion, 96
Regulation of local tissue Po2 of the brain cortex at different arterial O2 pressures, 308
pediatrics
ANEURYSM
Aneurysm of the posterior inferior cerebellar artery of a 5-year-old girl, 428
Basilar artery migraine in young children, 319
Cerebral hemorrhage following heart surgery, 423
Evaluation of intracranial disorders in children by computed transaxial tomography: a preliminary report, 95
Femoral percutaneous catheterization in infants and small children for cerebral angiography, 95
Lateral medullary syndrome in a child: arteriographic confirmation of vertebral artery occlusion, 430
Relapsing juvenile chronic subdural hematoma in adult life, 197
Simultaneous vasculitis in a mother and newborn infant, 207
Stroke in a 15-year-old girl secondary to terminal carotid dissection, 98
Vascular malformations of the pons in children, 98
pentobarbital
Timing of pentobarbital administration for brain protection in experimental stroke, 636
perfusion
Ischaemic brain damage of cerebral perfusion failure type after treatment of severe hypertension, 430
permeability
Effect of spatial variations in shear on diffusion at the wall of an arterial branch, 308
Permeability limitation in estimation of local brain blood flow with (14C) antipyrine, 102
Ultrastructural studies on cerebrovascular permeability in acute hypertension, 310
peroxidase
Enhanced vesicular transport of exogenous peroxidase across cerebral vessels, induced by serotonin, 103
pharmacology
Pharmacological control of local oxygen regulation mechanisms in brain tissue, 469
phenoxybenzamine
Cerebral infarction in the Mongolian gerbil exacerbated by phenoxybenzamine treatment, 485
photolamine
Alpha-receptor stimulation by endogenous and exogenous norepinephrine and blockade by photolamine in pial arteries of cats, 100
Effect of intracerebral photolamine on cerebral blood flow after subarachnoid injection of blood, 633
\footnotesize{INDEX [Paralysis-po,]}
phlebography
Orbital phlebography in the diagnosis of painful opthalmoplegia, 199
phosphodiesterase
Phosphodiesterase inhibitors and cerebral vasospasm, 195
physical training
Effort headache with cerebral infarction, 203
pindolol
Adrenergic \beta-receptor blockade in essential hypertension: A comparison between pindolol (visken®) and propranolol (inderal®), 309
pituitary
Hypothalamo-pituitary-adrenal function following subarachnoid hemorrhage, 102
plasma fibrinogen
Blood coagulation and plasma fibrinolytic enzyme system pathophysiology in stroke, 337
plasmatic arterionecrosis
Electron microscopic study of plasmatic arterionecrosis in the human cerebral arteries, 645
platelet aggregation
Effect of anticoagulants and inhibitors of platelet aggregation on thrombotic occlusion of endarterectomized cat carotid arteries, 248
Effects of ATP on platelets: evidence against the central role of released ADP in primary aggregation, 198
Hyperaggregability of platelets in thromboembolic disorders, 531
Physiological role of an endoperoxide in human platelets: hemostatic defect due to platelet cyclo-oxygenase deficiency, 206
Platelet aggregability measured by screen filtration pressure method in cerebrovascular diseases, 406
platelet function
Drugs affecting platelet function tests: their effects on hemostasis and surgical bleeding, 432
platelet metabolism
Platelet survival studies in stroke-prone spontaneously hypertensive rats (SHRSP), 60
platelet release
Effects of sulfinpyrazone on platelet release reaction and prostaglandin synthesis, 11
platelet survival time
Effect of sulfinpyrazone on platelet survival time in patients with transient cerebral ischemic attacks, 10
Effects of clofibrate and sulfinpyrazone on platelet survival time in coronary artery disease, 194
platelets
Inhibition of injury induced thromboatherosclerotic lesions by anti-platelet serum in rabbits, 636
Platelet dysfunction in migraine and effect of self-medication with aspirin, 11
Platelet function studies in transient cerebral ischemia, 11
Platelet-bound and free serotonin levels in jugular and forearm venous blood during migraine, 528
Responses of isolated human basilar arteries to 5-hydroxytryptamine, noradrenaline, serum, platelets, and erythrocytes, 310
Scanning electron microscopic observations of the common carotid artery of the rat. I. Heparin effect on platelets, 636
phlethysmodynamography
Ophthalmic arterial blood pressures measured by ocular plethysmodynamography, 93
pneumoplethysmography
Measurement of collateral cerebral hemispheric blood pressure of ocular pneumoplethysmography, 197
Noninvasive diagnosis of carotid occlusion of ocular pneumoplethysmography, 18
p02
Blood flow and relative tissue Po2 of brain and muscle: effect of various gas mixtures, 642
Recovery of the cortical evoked response following temporary middle cerebral artery occlusion in baboons: relation to local blood flow and Po2, 151
<table>
<thead>
<tr>
<th>INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>pulse wave propagation</td>
</tr>
<tr>
<td>purpura, thrombocytopenic</td>
</tr>
<tr>
<td>pyramid, right medullary</td>
</tr>
<tr>
<td>pyramidal tract responses</td>
</tr>
<tr>
<td>pyridine nucleotides</td>
</tr>
<tr>
<td>pyrithioxin</td>
</tr>
<tr>
<td>racial studies</td>
</tr>
<tr>
<td>radiation dosage</td>
</tr>
<tr>
<td>radioisotopes</td>
</tr>
<tr>
<td>radionuclide imaging</td>
</tr>
<tr>
<td>radionucleides</td>
</tr>
<tr>
<td>redox state</td>
</tr>
<tr>
<td>rehabilitation</td>
</tr>
<tr>
<td>protein permeability</td>
</tr>
<tr>
<td>pseudoneuromysms</td>
</tr>
<tr>
<td>pseudopolycthemia</td>
</tr>
<tr>
<td>pseudoxanthoma elasticum</td>
</tr>
<tr>
<td>pulse rate</td>
</tr>
</tbody>
</table>

| polyvinyl alcohol | Polyvinyl alcohol (Ivalon) — a new embolic material, 430 |
| pons | Vascular malformations of the pons in children, 98 |
| post-stroke state | Reversibility of the chronic post-stroke state, 296 |
| posterior fossa | Posterior fossa subdural hematoma demonstrated by vertebral \ angiography, 638 |
| | Posterior fossa vascular malformations. Long-term follow-up, \ 537 |
| potassium | Brain extracellular potassium activity during hypoxia in the \ cat, 318 |
| | Changes in cortical subarachnoid fluid potassium concentra- \ tions during hypoxia, 524 |
| pregnancy | Drugs affecting platelet function tests: their effects on haemos- \ tasis and surgical bleeding, 432 |
| premature contractions | Effects of premature atrial and ventricular contractions on \ opacity pulse wave propagation, 201 |
| propranolol | Adrenergic β-receptor blockade in essential hypertension: A \ comparison between pindolol (visken®) and propranolol \ (Inderal®), 309 |
| | Effect of beta-adrenergic blockade with propranolol on cerebral \ blood flow, autoregulation and CO2 responsiveness, 291 |
| | Pharmacological control of local oxygen regulation mechanisms \ in brain tissue, 469 |
| | Short-term clinical trial of propranolol in racemic form (Inderal), \ D-propranolol and placebo in migraine, 640 |
| prostaglandins | Cyclic adenosine monophosphate antagonism of prostaglandin \ induced vasospasm, 426 |
| | Effect of intracarotid prostaglandin E, on the regional cerebral \ blood flow in man, 566 |
| | Effects of prostaglandins on cerebral blood vessels: Inter- \ action with vasoactive amines, 424 |
| | Effects of sulfinpyrazone on platelet release reaction and pros- \ taglandin synthesis, 11 |
| | Nicotine-induced relaxation in isolated canine cerebral \ arteries, 203 |
| | Physiological role of an endoperoxide in human platelets: \ hemostatic defect due to platelet cyclo-oxygenase deficiency, 206 |
| | Spasmogenic qualities of prostaglandin F2 in the cat, 327 |
| prosthetic devices | Extracorporeal model for study of factors affecting thrombus \ formation, 531 |
| | Fröh- und spätbefunde nach biobond-beschichtung von intra- \ kraniellen aneurysmen (early and late results after coating \ intracranial aneurysms with Biobond), 100 |
| | Polyyvinyl alcohol (Ivalon) — a new embolic material, 430 |
| | Scanning electron microscopic appraisal of a new micro T- \ tube, 476 |
| | Small arterial substitute: expanded microporous polytetra- \ fluoroethylene: patency versus porosity, 200 |
| | Vascular clips for the microsurgical treatment of stroke, 489 |
| protein | Cerebral ischemia in gerbils: differential vulnerability of pro- \tein, RNA, and lipid syntheses, 260 |
| protein permeability | Permeability of intracranial blood vessels to serum protein, 8 |
| pseudoneuromysms | Pseudoneuromysms of the brachiocephalic arteries: a compi- \ lation of percutaneous internal jugular vein catheterization, 104 |
| pseudopolycthemia | Morbidity and mortality in pseudopolycthemia, 94 |
| pseudoxanthoma elasticum | Subarachnoid haemorrhage in pseudoxanthoma elasticum, 199 |
| pulse rate | Intracranial pressure, blood pressure, and pulse rate after oc- \ clusion of a middle cerebral artery in cats, 316 |
INDEX

[Rehabilitation-Shy-Drager syndrome]

Cerebral ischemia in gerbils: differential vulnerability of protein, RNA, and lipid synthases, 260

S

safflower oil

sagittal sinus
Experimental bypass for sagittal sinus repair. Preliminary report, 633

saline
Effect of hypertonic solutions on the blood-brain barrier, 198

salt
Salt, volume and the prevention of hypertension, 643

scanning
Brain scan in cerebrovascular “moyamoya” disease, 204

scintigraphy
Analysis of brain scan in patients with internal carotid arterial occlusion, 319

Bruits, ophthalmodynamometry and rectilinear scanning on transient ischemic attacks, 541

Dynamic/static brain scintigraphy: an effective screening test for subdural hematoma, 315

Evaluation of the posterior flow study in brain scintigraphy, 321

Improved brain scan specificity utilizing **Tc-pertechnetate and **Tc(Sn)-diphosphonate, 201

Reliability of gallium brain scanning in the detection and differentiation of central nervous system lesions, 197

Sцинтillation camera studies of isotope flow in arteriovenous malformations, 103

Tech-niques for positron scintigraphy of the brain, 464

screen filtration pressure
Platelet aggregability measured by screen filtration pressure method in cerebrovascular diseases, 406

seizures
Brain microvascular hemodynamic responses to induced seizures, 83

serotonin
Analysis of the effect of 5-hydroxykynurenamine, a serotonin metabolite, on isolated cerebral arteries, aortas and atria, 200

Enhanced vesicular transport of exogenous peroxidase across cerebral vessels, induced by serotonin, 103

Platelet-bound and free serotonin levels in jugular and fore-arm venous blood during migraine, 528

serum
Responses of isolated human basilar arteries to 5-hydroxytryptamine, noradrenaline, serum, platelets, and erythrocytes, 310

serum cholesterol
Effect of thiouracil upon canine arterial elastic tissue, 428

serum lipids
Serum lipid changes following the completed stroke syndrome, 103

serum protein
Distribution of serum protein labeled with Evans blue in the walls of extra- and intracranial blood vessels of the cat, 639

Permeability of intracranial blood vessels to serum protein, 8

shear
Effect of spatial variations in shear on diffusion at the wall of an arterial branch, 308

shunts
Role of sulfapyrazone in the prevention of arteriovenous shunt thrombosis, 194

T-shaped carotid shunt, 309

Shy-Drager syndrome
Clinical assessment of autonomic dysfunction: an approach to the Shy-Drager syndrome, 537

...
sickle cell disease
Transfusion therapy for cerebrovascular abnormalities in sickle cell disease, 431

sinus, carotid
Effect of carotid sinus nerve stimulation pattern on cardio-respiratory responses, 641
Effect of cervical sympathetic nerve stimulation on canine carotid sinus reflex, 641

sinus, carotid-cavernous
Experiences with intraluminal occlusion with the Fogarty catheter in the treatment of carotid-cavernous sinus fistulas and other lesions at the base of the skull, 100

sinus, sagittal
Experimental bypass for sagittal sinus repair. Preliminary report, 633

sinus, straight
Anatomical features of the straight sinus and its tributaries: Clinical correlations, 420

sinus, transverse-sigmoid
Clinical syndromes of arteriovenous malformations of the transverse-sigmoid sinus, 99

smooth muscle cells
Arterial cell renewal after experimentally induced thrombosis, 533

sodium nitroprusside
Effects EEG du nitroprussiate de sodium et references hemodynamiques (EEG and hemodynamic effects of sodium nitroprussiate), 536
Sodium nitroprusside and cerebral blood flow in the anesthetized and unanesthetized goat, 531
Sodium nitroprusside treatment of severe arterial hypertension in children, 532

sonography
B-Mode sonography as a screening procedure for asymptomatic carotid bruits, 202

spasm
Model for spasm of the anterior cerebral artery, 243

spasm, arterial
Chronic cerebral arterial spasm. The role of intracranial pressure, 316
Hypothalamic dysfunction and intracranial arterial spasms, 426

spasmogenicity
Spasmogenic qualities of prostaglandin F20 in the cat, 527

spasticity
Biofeedback treatment of foot drop after stroke compared with standard rehabilitation technique (part 2): effects on nerve conduction velocity and spasticity, 637

spectrophotometry
Cerebral haemorrhages with atypical clinical patterns. Study of cerebral haematomas using CSF spectrophotometry and computerized transverse axial tomography ("EMI scanning"), 202
Cerebrospinal fluid spectrophotometry and computerized transverse axial tomography (EMI scanning) in cerebrovascular diseases. Comparative study between two actual diagnostic methods in cerebrovascular disorders, 103

spinal cord
Blood flow in normal and injured monkey spinal cord, 102
Central necrosis of the spinal cord induced by hyperbaric oxygen exposure, 101
Comparison of vascular reactivity in spinal cord and brain, 560
Embolization of angiomia of the spinal cord, 426
Experimental cervical myelopathy. Effects of ischemia and compression of the canine cervical spinal cord, 93
Experimental cervical myelopathy: autoradiographic studies of spinal cord blood flow patterns, 636
Intracellular enzyme liberation in primate spinal cord injury, 93
Intraparenchymal embolization: a new technique for obliteration of an intramedullary arteriovenous malformation of the spinal cord, 6
Oxygen tension in spinal cord gray matter during exposure to hyperbaric oxygen, 102

Preserved autoregulation in the rhesus spinal cord after high cervical cord section, 632
Role of histamine in posttraumatic spinal cord hyperemia and the luxury perfusion syndrome, 420
Some aspects of the spinal cord circulation in cervical myelopathy, 200
Spinal cord blood flow as affected by changes in systemic arterial blood pressure, 420
Spontaneous spinal epidural hematoma, 319

stationary wave phenomenon
Arterial stationary wave phenomenon in Tolosa-Hunt syndrome, 98

steal phenomena
Symptomatic intracranial steal phenomena, 6

stenosis
Concidental multiple asymptomatic intracranial aneurysms and symptomatic carotid stenosis, 504
Extrathoracic bypass for stenosis of innominate artery, 94
Pulsed-Doppler ultrasonic arteriography in the diagnosis of carotid arterial stenosis, 3
Use of ophthalmosonometry in the diagnosis of carotid stenosis, 2

steroids
Ischaemic optic neuropathy: the clinical profile and natural history, 433
Large artery involvement in giant cell (temporal) arteritis, 424
Nonketotic hyperglycemic hyperosmolar coma. Report of neurosurgical cases with a review of mechanisms and treatment, 632
Steroid response to acute hypertension and its relation to cerebrovascular damage, 4
Steroid therapy in acute cerebral infarction, 424

stimulation
Analysis of the insensitivity of cerebral arteries to nerve stimulation and exogenous noradrenaline (NE), 9
Caution to brain scientists: unsuspected hemorrhagic vascular damage resulting from mere electrode implantation, 535
Effect of carotid sinus nerve stimulation pattern on cardio-respiratory responses, 641
Effect of cervical sympathetic nerve stimulation on canine carotid sinus reflex, 641
Effect of stimulation of carotid chemoreceptors on total and regional cerebral blood flow, 524
Electrical stimulation of the brain. II. Effects on the blood-brain barrier, 312
Electrophysiological orthosis for the upper extremity in hemiplegia: feasibility study, 532
Neurogenic influence on local cerebral blood flow. Effect of catecholamines or sympathetic stimulation as correlated with the sympathetic innervation, 309
Total and regional cerebral blood flow during stimulation of carotid baroreceptors, 239

stroke
Abstracts for the joint meeting on stroke and cerebral circulation, February 27-28, 1976, 1
Acute gastric changes in patients with acute stroke. Part 1: with reference to gastroendoscopic findings, 460
Acute gastric changes in patients with acute stroke. Part 2: gastroendoscopic findings and biochemical observations of urinary noradrenaline, adrenaline, and O-HCS and serum gastrin, 464
Angiographic appearance of carotid bifurcation in patients with completed stroke, transient ischaemic attacks, and cerebral tumour, 530
Aphasia in acute stroke, 167
Aphasia outcome in stroke: a clinical neuroradiological correlation, 516
Barbiturate attenuation of the clinical course and pathologic lesions in a primate stroke model, 199
Biofeedback treatment of foot drop after stroke compared with standard rehabilitation technique (part 2): effects on nerve conduction velocity and spasticity, 637
Biofeedback treatment of foot-drop after stroke compared with...
INDEX

standard rehabilitation technique: effects on voluntary control and strength, 98
Blood coagulation and plasma fibrinolytic enzyme system pathophysiology in stroke, 337
Blood gas and carotid pressure: factors in stroke risk, 5
Cerebral diaschisis in stroke, 7
Clinicopathological validation of a primate stroke model, 426
Comparison of computerized tomography and radionuclide imaging in "stroke", 109
Comparison of two systems for stroke rehabilitation in a general hospital, 635
Computed tomography in stroke, 2
Double-blind trial of glyceral therapy in early stroke, 641
EEG changes after acute cerebral embolism, 536
Effect of CSF removal on CBF and metabolism in patients with stroke and Alzheimer's disease, 8
Evaluation of computerized tomography (CT) in stroke, 2
Experimental and clinical data indicating a potential use of trazodone in acute stroke, 309
Fate of stroke patients transferred to a long-term rehabilitation hospital, 76
Flow and compartmental weight in relation to the course of stroke, 399
Geographic differences in mortality from stroke in North Carolina. 1. analysis of death certificates, 41
How does blood-pressure cause stroke?, 423
Influence of adrenergic receptor blockade on circulatory and metabolic effects of disordered neurotransmitter function in stroke patients, 158
Intensive care management of stroke patients, 573
Intracranial bleeding associated with urokinase therapy for acute ischemic hemispheric stroke, 143
Paroxysmal "nightmares." Sequel of a stroke responsive to diphenylhydantoin, 318
Pathogenetic similarity of strokes in stroke-prone spontaneously hypertensive rats and humans, 46
Predicting the outcome of stroke: acute stage after cerebral infarction, 198
Quantitative respiratory monitoring in acute stroke, 5
Report of the joint committee for stroke facilities XII.
Cerebral metabolism in stroke, 211
Residual disability in survivors of stroke — the Framingham study, 311
Reversibility of the chronic post-stroke state, 296
Sequence of electromyographic abnormalities in stroke syndrome, 427
Serum lipid changes following the completed stroke syndrome, 103
Stroke in a 15-year-old girl secondary to terminal carotid dissection, 98
Stroke rehabilitation: factors influencing prognosis and length of stay, 6
Stroke rehabilitation: outcome and prediction, 315
Stroke: does rehabilitation affect outcome?, 314
Stroke: what's new? Cerebral revascularization, 536
Studies on cerebrovascular strokes. II. Clinical findings and short-term prognosis in a stroke material, 536
Timing of pentobarbital administration for brain protection in experimental stroke, 636
Trial of long-term anticoagulant therapy in the treatment of small stroke associated with a normal carotid arteriogram, 310
Vascular clips for the microsurgical treatment of stroke, 489
Volunteer scheme for dysphasia and allied problems in stroke patients, 206

strokes
Long-term anticoagulant therapy for TIA's and minor strokes with minimum residuum, 444
subarachnoid space
Capillaries in the subarachnoid space, 645
sulfipyrazone
Effect of sulfipyrazone on platelet release reaction and prostaglandin synthesis, 11
Role of sulfipyrazone in the prevention of arteriovenous shunt thrombosis, 194

surgery
Carotid endarterectomy for cerebral ischemia: technical considerations, operative results, 12
Cerebral hemorrhage following heart surgery, 423
Electroencephalographic surveillance as a means of extending operability in high risk carotid endarterectomy, 12
Indications for surgical treatment of extracranial carotid occlusive disease, 12
Intracranial neurosurgical treatment of occlusive cerebrovascular disease, 348
Perioperative cerebral embolism in association with carotid arterial surgery: a significant hazard, 13
Surgical repair of the occluded carotid artery, 12
Surgical treatment of primary intracerebral hemorrhage. Part I: new angiographical classification, 30
survival rates
Prognosis of patients with middle cerebral artery occlusion, 482
Prognosis of patients with unilateral extracranial occlusion of the internal carotid artery, 480
survival studies
Cerebral function before and after carotid endarterectomy, 427
Elective carotid artery resection, 427
Geographic differences in mortality from stroke in North Carolina. 1. analysis of death certificates, 41
Morbidity and mortality in pseudopolycythaemia, 94
Quality of survival following direct surgery for anterior communicating artery aneurysms, 93
Residual disability in survivors of stroke — the Framingham study, 311
Stroke: does rehabilitation affect outcome?, 314
Studies on cerebrovascular strokes. II. Clinical findings and short-term prognosis in a stroke material, 536

sympathetic nervous system
"Richness" of sympathetic innervation: a comparison of cerebral and extracerebral blood vessels, 270
Effect of caval sympathetic nerve stimulation on canine carotid sinus reflex, 641
Effects of decreasing arterial blood pressure on cerebral blood flow in the baboon. Influence of the sympathetic nervous system, 427
Neurogenic influence on local cerebral blood flow. Effect of catecholamines or sympathetic stimulation as correlated with the sympathetic innervation, 309
synaptosomes
Recovery of decreased synaptosomal 2-deoxy-D-3H-glucose uptake after cerebral ischemia in Mongolian gerbils, 432
syncope
Problem of dizziness and syncope in old age: transient ischemic attacks versus hypersensitive carotid sinus reflex, 532

T-tubes
Scanning electron microscopic appraisal of a new micro T-tube, 476
tachycardia
Orthostatic hypotension associated with paroxysmal ventricular tachycardia, 311
technetium
Improved brain scan specificity utilizing 99mTc-pertechnetate and 99mTc(Sn)-diphosphonate, 201
Use of 99mTc-labeled albumin microspheres in cerebral vascular disease, 432
telangiectasia
Spontane carotis-cavernous-fistel bei morbus Osler-Rendu (telangiectasia hereditaria) (spontaneous carotid cav-
ernous fistula in a case of hereditary hemorrhagic telangiectasia (Osler-Rendu), 101
temporal lobes
Juvenile temporal arteritis: biopsy study of four cases, 321
Oxygen availability and blood flow in the temporal lobes during spontaneous epileptic seizures in man, 431
tenth Princeton conference on cerebral vascular diseases
Summary of the tenth Princeton conference on cerebral vascular diseases, January 7-9, 1976, 235
terson’s syndrome
Intravascular hemorrhage associated with rapid increase in intracranial pressure (Terson’s syndrome), 201
theophylline
Dilatatory action of adenosine on pial arteries of cats and its inhibition by theophylline, 645
thermography
Thermography in the management of carotid-cavernous fistulas, 196
thiouracil
Effect of thiouracil upon canine arterial elastic tissue, 428
thrombin
Endothelial injury induced by thrombin or thrombi, 198
thrombocytopenic purpura
Thrombotic thrombocytopenic purpura. Systemic embolization from nonbacterial thrombotic endocarditis, 429
thromboembolisms
Hyperregenerability of platelets in thromboembolic disorders, 531
thrombolytic agents
Intracranial bleeding associated with urokinase therapy for acute ischemic hemispheric stroke, 143
Pilot study of urokinase therapy in cerebral infarction, 135
thrombosis
Arterial cell renewal after experimentally induced thrombosis, 533
Case of primary cerebral venous thrombosis, 199
Components of blood pressure and risk of atherothrombotic disorders, 516
Differentiaaldiagnose des Schlaganfalles in computer-tomogramm, 644
Effect of anticoagulants and inhibitors of platelet aggregation on thrombotic occlusion of endarterectomized carotid arteries, 248
Extracorporeal model for study of factors affecting thrombus formation, 531
Inhibition of injury induced thromboatherosclerotic lesions by anti-platelet serum in rabbits, 636
Neck mass caused by thrombus in the external jugular vein, 536
Pharmacology of a potent, new antithrombotic agent, 6-methyl-1, 2, 3, 5-tetrahydroimidazo[2, 1-b]quinazolin-2-one hydrochloride monohydrate (BL-3459), 207
Role of sulfipyrazone in the prevention of arteriovenous shunt thrombosis, 194
Thrombosed giant cerebral aneurysms, 526
Thrombosis and intracranial tumors, 101
Thrombosis in acute experimental cerebral vasospasm, 9
Thromboembolic thrombocytopenic purpura. Systemic embolization from nonbacterial thrombotic endocarditis, 429
tolosa-hunt syndrome
Arterial stationary wave phenomenon in Tolosa-Hunt syndrome, 98
tomography
Angiotomographic study of the normal cerebral circulation. II. The vertebrobasilar system, 638
Aphasia outcome in stroke: a clinical neuroradiological correlation, 516
Approach to contrast enhancement in computed tomography of the brain, 196
Cerebral blood volume in man: computer analysis of a computerized brain scan, 320
Cerebral hemorrhages with atypical clinical patterns. Study of cerebral haematomas using CSF spectrophotometry and computerized transverse axial tomography (“EMI scanning”), 202
Cerebral infarction diagnosis by computerized tomography. Analysis and evaluation of findings, 204
Cerebrospinal fluid spectrophotometry and computerized transverse axial tomography (EMI scanning) in cerebrovascular diseases. Comparative study between two actual diagnostic methods in cerebrovascular disorders, 103
Comparison of computerized tomography and radionuclide imaging in “stroke”, 109
Computed tomography in stroke, 2
Computed tomography: the “resolving” intracerebral hemorrhage, 529
Computer assisted axial tomography in cerebrovascular lesions, 203
Computer subtraction in regional cerebral blood-volume measurements using the EMI-scanner, 639
Computerized axial tomography of intracerebral hematoma: a clinical and neuropathological study, 525
Computed tomography (CT) in acute head trauma, 642
Cranial computed tomography: an evaluation of cost effectiveness, 313
Differentiaaldiagnose des Schlaganfalles in computer-tomogramm, 644
E.M.I. scan in the management of head injuries, 641
Early experience with the EMI scanner for study of the brain, 93
Evaluation of computerized tomography (CT) in stroke, 2
Evaluation of intracranial disorders in children by computerized transaxial tomography: a preliminary report, 95
Extravascular component of contrast enhancement in cranial computed tomography. Part I: the tissue-blood ratio of contrast enhancement, 422
Extravascular component of contrast enhancement in cranial computed tomography. Part II: contrast enhancement and the blood-tissue barrier, 422
Intracerebral haemorrhage: accuracy of computerised transverse axial scanning in predicting the underlying aetiology, 425
New method of autotomography with cerebral angiography (angiotomography), 200
Recent ischaemic brain infarcts at computed tomography: appearances pre- and postcontrast infusion, 424
Relative efficacy of radionuclide imaging and computed tomography of the brain, 93
transfusion
Transfusion therapy for cerebrovascular abnormalities in sickle cell disease, 431
transient ischemic attacks
Angiographic appearance of carotid bifurcation in patients with completed stroke, transient ischaemic attacks, and cerebral tumour, 530
Aspirin and transient ischaemic attacks, 11
Brain circulation in cerebral transient ischaemic attacks, 428
Bruits, ophthalmodynamometry and rectilinear scanning on transient ischaemic attacks, 541
Carotid endarterectomy for nonhemispheric transient ischaemic attacks, 318
Cerebral revascularization for transient ischaemic attacks, 13
Diseases of the central nervous system: cerebral atherosclerosis, transient ischaemic attacks, Menière’s disease, and disorders of balance, 320
Effect of sulfipyrazone on platelet survival time in patients with transient cerebral ischemic attacks, 10
Long-term anticoagulant therapy for TIA’s and minor strokes with minimum residuum, 444
Platelet function studies in transient cerebral ischemia, 11
Problem of dizziness and syncope in old age: transient ischaemic attacks versus hypersensitive carotid sinus reflex, 532
Stroke: what’s new? Cerebral revascularization, 536
In situ studies of oxidative energy metabolism during transient cortical ischemia in cats, 533
INDEX

trazodone
Experimental and clinical data indicating a potential use of trazodone in acute stroke, 309

tumors
Angiographic appearance of carotid bifurcation in patients with completed stroke, transient ischaemic attacks, and cerebral tumour, 530
Thrombosis and intracranial tumors, 101

tumors, angiomas
Embolization of angiomas of the spinal cord, 426
Intracerebral venous angioma, 638
Vascular malformations of the pons in children, 98

tumors, atheromas
Is atheroma a reversible lesion?, 639

tumors, glomus
Neurologic manifestations of glomus tumors in the head and neck, 634

tumors, hemangiomas
Cerebral cavernous haemangiomas or cavernomas. Incidence, pathology, localization, diagnosis, clinical features and treatment. Review of the literature and report of an unusual case, 644

3


tumors, hemangiomas
Angiography in intracerebral cavernous hemangioma, 94

tumors, hematomas
Acute traumatic intracranial haematoma without skull fracture, 541
Cerebral cortical arteries in the diagnosis of epidural hematoma, 638
Cerebral haemorrhages with atypical clinical patterns. Study of cerebral haematomas using CSF spectrophotometry and computerized transverse axial tomography ("EMI scanning"), 202
Computerized axial tomography of intracerebral hematoma: a clinical and neuropathological study, 525
Dynamic/static brain scintigraphy: an effective screening test for subdural hematoma, 315
Frontal extradural hematomas, 530
Lateral angiogram in the differentiation of extradural cerebral hematomas, 197
Local alterations of hemostatic-fibrinolytic mechanisms in reforming subdural hematomas, 96
Posterior fossa subdural hematoma demonstrated by vertebral angiography, 638
Primary non-traumatic intracranial hemorrhage: a municipal emergency hospital viewpoint, 608
Relapsing juvenile chronic subdural hematoma in adult life, 197
Spontaneous extradural hematomas, 99
Spontaneous spinal epidural hematomas, 319
Transient paraplegia from hematoma after lumbar puncture: a consequence of anticoagulant therapy, 430

3


tumors, meningiomas
Subarachnoid hemorrhage due to lateral ventricular meningiomas, 312

tumors, myxomas
Vascular occlusions in the eye from cardiac myxomas, 206

U

ulceration, carotid
Experimental carotid ulceration: detection by radiolabeled particle entrapment versus angiography, 10

3

ulcers
Acute gastric changes in patients with acute stroke. Part 1: with reference to gastroendoscopic findings, 460
Acute gastric changes in patients with acute stroke. Part 2: gastroendoscopic findings and biochemical observations of urinary noradrenalin, adrenalin, 17-OHCS and serum gastrin, 464

3

ultrasound
Accuracy of the supraorbital Doppler examination in the diagnosis of hemodynamically significant carotid occlusive disease, 526

3

Assessment of the capacity of cerebral collateral circulation using ultrasonic Doppler technique, 526
Clinical evaluation of real-time ultrasonic B-scan imaging of the carotid artery: a preliminary report, 3
Clinical implications of the Doppler cerebrovascular examination: a correlation with angiography, 371
Doppler sonography diagnosis of cerebrovascular disease, 439
Evaluation of carotid and vertebrobasilar insufficiency by Doppler ultrasound scanning, 2
Intraoperative use of Doppler to detect successful obliteration of carotid-cavernous fistulas. Technical note, 317
Measurement of cerebral circulation by means of ultrasonic Doppler technique in man, 421
Noninvasive angiography for the diagnosis of carotid artery disease using Doppler ultrasound (carotid artery Doppler), 354
Noninvasive angiography for the diagnosis of vertebral artery disease using Doppler ultrasound (vertebral artery Doppler), 364
Noninvasive measurement of velocity profiles and blood flow in the common carotid artery by pulsed Doppler ultrasound, 370
Pulsed-Doppler ultrasonic arteriography in the diagnosis of carotid arterial stenosis, 3
Real-time high resolution ultrasound carotid imaging system, 3

3

urica
Effect of hypotonic solutions on the blood-brain barrier, 198

3

urinary tract
Acute gastric changes in patients with acute stroke. Part 2: gastroendoscopic findings and biochemical observations of urinary noradrenalin, adrenalin, 17-OHCS and serum gastrin, 464

3

urografia
Lasion of angiography with Urografin 600 on the basal vessels of the brain of the baboon, 199

3

urokinase therapy
Intracranial bleeding associated with urokinase therapy for acute ischemic hemispheral stroke, 143
Pilot study of urokinase therapy in cerebral infarction, 135

V

vascular beds
"Richness" of sympathetic innervation: a comparison of cerebral and extracerebral blood vessels, 270
Significance of histamine H2 and H3 receptors on the carotid vascular bed in the dog, 96

3

vascular clips
Vascular clips for the microsurgical treatment of stroke, 489

3

vascular reactivity
Comparison of vascular reactivity in spinal cord and brain, 560

3

vascular resistance
Cerebral blood flow regulation: vascular resistance adjustments in the circle of Willis, 147

3

vasculitis
Simultaneous vasculitis in a mother and newborn infant, 207

3

vaseoconstriction
Effects of prostaglandins on cerebral blood vessels: Interaction with vasoactive amines, 424

3

vasodilation
Effect of a new vasodilator (flunarizine) on the cerebral circulation (of cats), 202
Vasodilator action of angiography with Urografin 600 on the basal vessels of the brain of the baboon, 199

3

vasodilation, cerebral
Neurogenic cerebral vasodilation from electrical stimulation of the cerebellum in the monkey, 179

3

vasodilator agents
Dilatatory action of adenosine on pial arteries of cats and its inhibition by theophylline, 643
Dynamic response of the intracranial system in the conscious dog to papaverine hydrochloride, 618
Effects EEG du nitroprussiate de sodium et references hemo-
dynamiques (EEG and hemodynamic effects of sodium nitroprussiate), 536

Scanning electron microscopic observations of the common carotid artery of the rat. III. Heparin effect on platelets, 636

Sodium nitroprusside and cerebral blood flow in the anesthetized and unanesthetized goat, 531

vasoparalysis

Cerebrale vasoparalyse, arterielle hypertension und hirnödem (Cerebral vasoparalysis, arterial hypertension and brain edema), 534

vasospasm

Cerebral hemodynamic crisis. Physiology, pathophysiology, and approach to therapy, 536

Cerebral vasospasm and ruptured intracranial aneurysm, 94

Cyclic adenosine monophosphate antagonism of prostaglandin induced vasospasm, 426

Effect of dopamine-beta-hydroxylase inhibition on cerebral vasospasm in the cat, 527

Evidence against cerebral vasospasm during acutely induced hypertension, 535

Experimental evaluation of the spasmogenicity of dopamine on the basilar artery, 420

Experimental vasospasm: a histological and angiographical comparison, 9

Hypothalamic dysfunction and intracranial arterial spasms, 426

In vitro study of prolonged vasospasm of a rabbit cerebral artery, 174

Limitations of diazoxide reversal of vasospasm, 118

Phosphodiesterase inhibitors and cerebral vasospasm, 195

Spasmogenic qualities of prostaglandin 

F_2alpha in the cat, 527

Topical lidocaine in treatment of cerebral vasospasm, 98

vegetative state

Study on regional cerebral blood flow and metabolism in the patients with vegetative state, 313

veins

Angiographically verified transient alteration of the intracranial arteries and veins in dependence on different CO_2 tensions, 638

veins, jugular

Jugular venography for evaluation of abnormalities of the skull base, 632

Measurement of jugular venous blood gases for prediction of brain ischaemia following carotid ligation: a comparison with direct measurements of cerebral blood flow, 533

Neck mass caused by thrombus in the external jugular vein, 536

Platelet-bound and free serotonin levels in jugular and forearm venous blood during migraine, 528

Pseudoaneurysms of the brachiocephalic arteries: a complication of percutaneous internal jugular vein catheterization, 104

veins, retinal

Cilio-retinal arterial circulation in central retinal vein occlusion, 320

Visual field changes in branch retinal 'vein' occlusion, 643

velocity

Carotid blood velocity during cough studies in man, 416

Noninvasive measurement of velocity profiles and blood flow in the common carotid artery by pulsed Doppler ultrasound, 370

venography

Jugular venography for evaluation of abnormalities of the skull base, 632

ventilation

Transient responses of cerebral blood flow and ventilation to changes in PaCO_2 in normal subjects and patients with cerebrovascular disease, 584

vertebrobasilar system

Angiographic study of the normal cerebral circulation. II. The vertebrobasilar system, 638

vertigo

Positional vertigo, 317

vesicular transport

Enhanced vesicular transport of exogenous peroxidase across cerebral vessels, induced by serotonin, 103

vincamin

Effects of vincamin on cerebral metabolism, 103

visual evoked responses

Electrophysiological parameters in the evaluation of occipital apoplexy, 317

W

water content

Ischemic brain edema and compression brain edema: water content, blood-stream barrier and circulation, 77

X

xanthomatosis

Risk of atherosclerotic vascular disease in subjects with xanthomatosis, 321

xenon inhalation

Hemispheric specialization in normal man studied by bilateral measurements of the regional cerebral blood flow: A study with the 133Xe inhalation technique, 322

xeroradiography

Use of xeroradiography in the investigation of diseases occurring in the central nervous system, 432