Acetylcholine
disordered cholinergic neurotransmission after CI, 172
supersensitivity of pial vascular adrenoceptors, 525

Acid-base balance
lactate and pyruvate and, of CSF in SAH, 715

Adenosine
release from ischemic brain, 92
Adenosine diphosphate
experimental study with intracarotid ADP infusion in rabbits, 617

Adrenergic block
pial microcirculation in SAH, 417

Adrenergic mechanisms
in cephalic and cerebral circulations of primates, 452
in CBF of goats, 552

Adrenergic receptors
in isolated feline middle cerebral artery characterized pharma-
cologically, 449

Africans
cerebral atherosclerosis and selected disease in Nigerians, 395
sick-sinus syndrome, 460
trace metal content of cerebral vessels, 684

Age categories
comparative study of cerebral vasocactivity, 673

Alcohol
brain capillary permeability studies of water and several al-
cohols, 231

Amaurosis fugax
clinical angiographic correlations, 87
clinical comparison, 493

Anesthesia
transient global, 513

AMP levels
evidence for disordered cyclic AMP metabolism in CI, 722

Anaerobic metabolism
effects of bilateral carotid artery ligation, 62

Anastomosis
experimental augmentation of rCBF by microvascular, 207
intracranial arterial, 559
microvascular, effect of sulfipyrazone and heparin on, 229
temporal artery-middle cerebral artery, 334
orbital, of anterior deep temporal artery, 724
segmental intervertebral, in subclavian steal, 457
temporal artery-middle cerebral artery, 212
transient postoperative occlusion of superficial temporal-middle
cerebral artery branch anastomosis, 727

Anesthesia
barbiturate protection from CI in primates, 28
effects of morphine-nitrous oxide, on cerebral autoregulation, 456
effects on cerebral, renal, and splanchnic circulations, 48
influence on responses to regional cerebral ischemia, 405
internal carotid artery stump pressures during regional anes-
thesia, 346

Aneurysms
angiographically monitored resolution of cerebral mycotic
aneurysms, 336
anterior communicating surgical techniques, 339
berry
experiences with surgical thrombosis of intracranial berry
aneurysms and carotid cavernous fistulas, 336
in Nigerians, 395
bilateral dissecting, 345
on intracranial internal carotid arteries, 726
cardiac arrhythmias and sudden death in SAH, 382
carotid-ophthalmic, 351
cerebral aneurysms in stenosis of aortic isthmsus, 341
cerebral circulation time with ruptured intracranial, 207
computed tomography in management of, 105
conservative management of recently ruptured, 453
dissecting, of carotid and vertebral arteries, 346
following endarterectomy associated with patch graft angi-
plasty, 729
internal carotid
pupillary sparing in oculomotor palsy from, 721

intracranial
analysis of results of nine years' experience in surgical treat-
ment of, 722
familial, 218, 334
microsurgical approach to, 460
new approach to management of, 455
and SAH treated with antifibrinolytic therapy, 622
surgery for, 726
treatment by wrapping and coating, 452
loculated intracranial, 212
management of rupture during surgery, 342
Moyamoya disease associated with several intracavernous, 93
multiple cerebral
and cardiac myxoma, 550
identification of source of bleeding in, 96
myotic case report with novel sequential angiographic findings,
348
pseudoaneurysm. See Pseudoaneurysms
ruptured
antifibrinolytic therapy in recent onset SAH following, 622
continuous ventricular drainage to lessen surgical risks, 339
value of cerebral isotope flow studies in timing of surgery, 459
surgical treatment of arterial aneurysms of vertebrobasilar circu-
lation, 335

traumatic aneurysm of peripheral cerebral artery, 209

Angiogendotheliosis
of central nervous system, 85

Angiography
angiographic circulation time
as index of CBF, 540
blood flow and patency in basilar artery grafts, 445
carotid artery disease, 720
of cerebellar hemorrhage secondary to hypertension, 459
congenital absence of both internal carotid arteries, 552
appearance and reappearance of cerebral aneurysm in serial
angiograms, 207
extravasation of contrast material into subdural space, 551
loculated intracranial aneurysms, 212
patterns of CVD in Japanese and other groups in Hawaii, 539
pontine hemorrhage, 93
positive scans in recanalized cerebral infarction, 132
rupture of posterior inferior cerebellar artery aneurysm, 551
Todd's paralysis, 301
value of colour subtraction of angiograms particularly in cerebro-
vascular disease, 720

Angiomata
cervical spinal angioma combined with arterial aneurysm, 452
telangiectases and cavernous angiomas of the brainstem, 340

Angiomas of the orbit
arteriography in, 212

Angioscintigraphy
advantage of programmed evaluation in vascular disease, 454

Angiography
study of normal cerebral circulation, 210

Animal studies
baboons
chronic stroke model, 476
local CBF and vascular reactivity in chronic stable stroke, 482
cats
cardiorespiratory interaction during cerebral oil embolization
and hypertension, 233
carotid arterial supply, 361
CBF in cats after acute hypertensive insult, 188
cranial window technique for acute and chronic experiments,
308
immediate effects of cerebral ischemia, 321
### Animal studies - Atherosclerosis

- Response of pial arteries to norepinephrine and sympathetic nerve stimulation, 634
- Supersensitivity of pial vascular adrenoceptors, 525
- Weight, volume, and specific gravity of cat brain, 232
- Dogs experimentally induced intracerebral and SAH in dogs, 715
- Genes of cerebral vasospasm, 52
- Global ischemia, 21
- Post-ischemic regulation of CBF, 425
- Gerbils acute unilateral common carotid artery ligation, 729
- Communications between vertebral-basilar and carotid arterial circulations, 343
- Experimental stroke in, 234
- Mice constriction of pial arterioles by prostaglandins, 293
- Monkeys artificial embolization of MCA in primates, 387
- Cerebral energy metabolism following SAH, 1
- Effects of hypotension on, 723
- Effects of simulated SAF on CBF, 664
- Estimating total CBF from initial slope of hydrogen washout curves, 149
- NADH in cerebral cortex; animal preparation, instrumentation, and validity of model, 270
- Peripheral sympathetic nervous system in CBF autoregulation, 284
- Resuscitation of monkey brain after one hour's complete ischemia, 454
- Primates barbiturate protection from cerebral infarction, 28
- Chronic stroke model, 476
- Effect of salt overloading on atherosclerosis and blood pressure, 9
- Polarographical measurement of local CBF, 42
- Rats effects of oxygen saturation and PCO₂ on brain uptake of glucose analogues, 691
- Experimental study with intracarotid ADP infusion, 617
- Brain scan in cerebral ischemia for study of radionuclide localization, 703
- Cerebral energy metabolism after SAH, 1
- Chronic diabetes followed by cerebral ischemia, 432
- Effects of bilateral carotid artery ligation, 62
- Measurement of CBF by xenon-133 infusion, 630
- Antisocoria following cerebrovascular accidents, 697
- Anovulants thrombosis and other associated changes, 341
- Anoxia-ischemia energy metabolism during brain ischemia, 678
- Perivascular lesions, in human brain, 532
- Anticoagulant therapy in cerebrovascular disease: critical review of studies, 723
- Congenital malformations associated with administration during pregnancy, 460
- Endothelial cell ischemic injury, 357
- Platelet inhibition in management of thrombosis, 348
- Reliability of laboratory tests for control of oral anticoagulation, 460
- Self control method for long term, 347
- Use in bacterial endocarditis, 85
- Warfarin interactions with five sedatives, 349
- Antifibrinolytic therapy in recent onset SAH following rupture of intracranial aneurysm, 622
- Antihypertensive drugs randomized clinical trial of strategies for improving compliance, 724
- Return of elevated blood pressure after withdrawal of antihypertensive drugs, 721
- Antipyrine autoradiography experimental study with intracarotid ADP infusion in rabbits, 617
- Aortic arch angiograms brain stem infarction, 328
- Aortic valve replacement platelet survival time following, 430
- Aortocoronary bypass atherosclerosis in vein grafts, 216

### Index

- Aphasias Broca's area and Broca's aphasia, 228
- Communication for aphasic stroke patient: assessment and therapy, 730
- Melodic intonation therapy for, 226
- Aphexapy epidemiological study of cerebral apoplexy and MI in Japan, 455
- Arrhythmias and sudden death in SAH, 382
- Arterial fibrinolytic therapy histopathological character and current etiologic concepts, 722
- Arterial tissue injury and repair of, 348
- Arteries endothelial response to temporary arterial occlusion with surgical clips, 232
- Maintenance of viable segments of human artery in vitro, 218
- Arteriography in angiomatous of the orbit, 212
- Carotid. See Carotid arteriography
- Atherosclerosis cerebral effect of cyclohexamide on dementia, 535
- Artifactual fistulae and pseudoaneurysms involving middle meningeal artery, 453
- Atherosclerotic malformations cerebral radionucleide cerebral angiograms, 346
- Surgical embolization, 551
- Cerebral vasospasm with SAH, 452
- Choroid plexus, 721
- Computed tomography in management of, 105
- Intracranial intellectual performance of patients with, 219
- Intraparenchymal, 335
- Spontaneous thrombosis of deep cerebral veins, 164
- Arteritis giant cell, 86, 217
- Corticosteroid treatment, 552
- Temporal arteriography and biopsy, 346
- Takayasu's, 345, 460
- Aspirin and coronary heart disease: findings of a prospective study, 720
- Effect on endothelial cell ischemic injury, 357
- Hemostatic and thrombosis, 559
- Increased platelet aggregates in TIA, 521
- Influence on platelet kinetics and venous thrombosis, 344
- Thrombotic-hemorrhagic diathesis of polycythemia vera treated with, 97
- Atherogenesis early events in, 350
- Immunological enhancement in rabbits, 85
- Atheromatous emboli to lumbosacral spinal cord, 411
- Atherosclerosis altered endogenous fibrinolysis and biochemical factors, 94
- Amaurosis and, 493
- In aortocoronary vein grafts, 216
- Biochemical precursors of, 93
- Carbon monoxide-induced, 215
- Cerebral in Japanese, 348
- In selected diseases in Nigerians, 395
- Diaphragm-like obstructions of human arterial tree, 211
- Effect of hypertension and atherogenic diet, 210
- Effect of salt overloading on atherosclerosis and blood pressure in primates, 9
- Light and electron microscopic studies on temporal arteries, 556
- Lipid composition of cerebral vessels in American Negroes, Caucasians and Africans, 298
- Lipids and lipoprotein concentrations, ECG and, 219
- Localization of apo-lipoproteins in carotid artery plaques, 531
- Long-term administration of pyridinol carbamate, 457
- Pathogenesis, 220
- Pathological studies on intracerebral and retinal arteries, 263
- Primary prevention of, 359
- Scanning electron microscopic studies in miniature pigs, 232
- Trace metal content of cerebral vessels, 684
- Transient global amnesia, 513
- World Federation of Neurology Code for Grading Atherosclerosis, 616

*Stroke, Vol. 6, November-December 1975*
INDEX

[Atlanto-axial subluxation-Broca’s area]

after papaverine-induced vasodilatation, 208
maintenance during profound hyperventilation, 91
transient alteration after administration of hypertensive solutions
via carotid artery injection, 94

Blood flow. See Cerebral blood flow

Blood pressure

brain stem infarction, 328
education of physicians in high blood pressure, 559
effect of salt loading on atherosclerosis and, in primates, 9
hypertension testing among high school students, 230
influence of race, sex, and weight on, in young adults, 556
learned control of blood pressure, 450
NADH in cerebral cortex, 279
return of elevated blood pressure after withdrawal of antihypertensive drugs, 724
skin blood pressure in forehead in patients with internal carotid lesions, 58

Blood vessels, cerebral

ballon catheterization and occlusion, 88
constriction of pial arterioles by prostaglandin F 2α, 293

Bacterial endocarditis

lipid composition of cerebral vessels in American Negroes, 298

Barbiturate anesthesia

trace metal content in Blacks, Caucasians and Africans, 684

Behr Pupil

measurement of local CBF in three dimensions in man, 237
NADH in cerebral cortex, 279

Body build

brain stem infarction, 328

Brain

edema
antiedema therapy in stroke, 353
effect of drugs on experimental, 89
glycerol versus dexamethasone in treatment of edema in CI, 724
immediate effects of cerebral ischemia, 321
influence of dexamethasone, 218
ischemia
global ischemia in dogs: intracranial pressures, CBF and metabolism, 21
morphological consequences of prolonged complete brain ischemia, 219
phospholipid metabolism during ischemia, 72
release of adenosine from, 92
relationship of vasculature to production of neurological deficit
and morphological changes, 729
swelling, 218
neural control of cerebrovascular tone, 94
vascular sclerosis
comparative study of cerebral vasoactivity in brain in elderly, 673

Brain death

global ischemia in dogs, 21

Brain scans and scanning

anoxic brain scan in Paget’s disease of bone, 219
in cerebral vascular disease, 136
cerebral appearance of inhaled hydrogen in diagnosis of cerebral circulatory arrest, 324
radioisotopic bolus technique as test to detect circulatory deficit associated with cerebral death, 721

Brainstem

characteristics and survival of patients with infarction, 328
cerebral infarction, 136
characterization of malignant gliomas and CV disease, 199
diagnosis and management of strokes, 659
positive scans in recanalized cerebral infarction, 132
with technetium 99m pertechnetate, 726

INDEX

[Atlanto-axial subluxation-Broca’s area]
Carotid artery disease, 361
anomalous posterior cerebral artery, 349
in systemic hypotension, 343
response of pial arteries to norepinephrine and sympathetic nerve stimulation, 634
synthesis in hypoxic synaptosomes, 227
Catheterization
great vessel catheterization and occlusion of major cerebral vessels, 88
Caucasians
trace metal content of cerebral vessels, 684
Central nervous system
vascular malformations, 221
Cerebral angiography
targeted intracranial stenosis and occlusion, 334
extreme tortuosity and paresis of hypoglossal nerve, 92
fibromuscular dysplasia: surgical management, 335
kinks, calci, and CVD, 649
occlusions
spontaneous recanalization, 87
origins of middle meningeal artery, 93
pressures: guide for use of shunt during carotid repair, 207
skin blood pressure in patients with internal carotid lesions, 58
stenosis and amaurorisis fugax, 493
supply to temporal bone chemodectomas, 724
thrombosis prognosis and risk factors, 725
ischemic carotid endothelium, 457
ligation, effect on brain lactate and pyruvate, 62
localization of apolipoproteins in plaques, 531
mycotic aneurysm, 207
noninvasive carotid bifurcation mapping and carotid surgery, 91
significance of elongation and angulation: negative view, 343
stenosis
techniques of ocular pulse analysis, 85
surgery
analysis of medical treatment and, 460
for cerebrovascular insufficiency, 91
noninvasive carotid bifurcation mapping, 91
prognosis and possibilities of surgical revascularization, 17
vertebral and carotid artery disease, 339
traumatic carotid-jugular fistula, 720
Carotid artery disease
indications for angiography and surgery, 720
suprachoric and suprachoroidal artery flow patterns in, 228
INDEX
Carotid baroreceptors
simplified neck suction device for activation of, 451
Carotid baroreflex
effect of hypoxia on vascular responses, 451
Carotid cavernous fistula
direct repair with preservation of carotid, 336
endarterial occlusion using balloon tipped catheter, 209
electrothrombosis of, 344
experiences with surgical thrombosis of intracranial berry aneurysms and, 350
occlusion with balloon catheter, 726
radionuclide angiography in diagnosis of, 220
transcranial emboiliation, 344
treatment by endo-arterial occlusion with balloon catheter, 558
Carotid compression tonography
in diagnosis of extracranial carotid occlusive disease, 257
Carotid endarterectomy, See Endarterectomy, carotid
Carotid-jugular fistula
non-corrected, traumatic, 728
Carotid sinus
relationship between carotid sinus pressure and plasma renin level, 209
Carotid sinus massage
complete His-Parkinje block produced by, 89
Carotid stenosis
radionuclide angiography in graded, 553
Catecholamines
effect of CI in rat brain on behavior and, 729
in experimental brain ischemia, 456
response of pial arteries to norepinephrine and sympathetic nerve stimulation, 634
sythesis in hypoxic synaptosomes, 227
Catheterization
great vessel catheterization and occlusion of major cerebral vessels, 88
Caucasians
trace metal content of cerebral vessels, 684
Central nervous system
vascular malformations, 221
Cerebral angiography
targeted intracranial stenosis and occlusion, 334
extreme tortuosity and paresis of hypoglossal nerve, 92
fibromuscular dysplasia: surgical management, 335
kinks, calci, and CVD, 649
occlusions
spontaneous recanalization, 87
origins of middle meningeal artery, 93
pressures: guide for use of shunt during carotid repair, 207
skin blood pressure in patients with internal carotid lesions, 58
stenosis and amaurorisis fugax, 493
supply to temporal bone chemodectomas, 724
thrombosis prognosis and risk factors, 725
ischemic carotid endothelium, 457
ligation, effect on brain lactate and pyruvate, 62
localization of apolipoproteins in plaques, 531
mycotic aneurysm, 207
noninvasive carotid bifurcation mapping and carotid surgery, 91
significance of elongation and angulation: negative view, 343
stenosis
techniques of ocular pulse analysis, 85
surgery
analysis of medical treatment and, 460
for cerebrovascular insufficiency, 91
noninvasive carotid bifurcation mapping, 91
prognosis and possibilities of surgical revascularization, 17
vertebral and carotid artery disease, 339
traumatic carotid-jugular fistula, 720
Carotid artery disease
indications for angiography and surgery, 720
suprachoric and suprachoroidal artery flow patterns in, 228
Cerebral artery occlusive disease
See Cerebrovascular disease
Cerebral blood flow
angioraphic circulation time as index of, 549
angiotonomographic study, 210
application of X-fluorescence in study of, 91
augmentation of rCBF by microvascular anastomosis, 207
autoregulation. See also Autoregulation, cerebral
chronically impaired in long-term diabetics, 497
NADH in cerebral cortex, 279
role of peripheral sympathetic nervous system in, 284
blood flow patterns induced in dominant hemisphere by speech and reading, 218
in cats after acute hypertensive insult, 188
cerebral hemodynamics, vasomotor tone, critical closing pressure and vascular bed resistance, 327
cholinergic neurogenic influence on, 126
disordered cholinergic neurotransmission and dysautoregulation after CI, 172
effect of CI on rCBF of contralateral hemisphere, 160

742
Stroke, Vol. 6, November-December 1975
Cerebral infarction
Cerebral energy metabolism
See Cerebral cortex
Cerebral dynamic studies
Cerebral ischemia
Cerebral perfusion pressure
Cerebrovascular accidents
Cerebrovascular disease
Cerebrovascular disease, anticoagulant therapy
Cerebrovascular disease, classification and outline of cerebrovascular diseases II
Cerebrovascular disease, hyperlipoproteinemia in occlusive
Cerebrovascular disease, short-term prognosis
Cerebrovascular insufficiency
Cerebrovascular lesions
Cerebrovascular resistance
Cerebrovascular surgery
Chenodetomas
Children and infants
Chlorpromazine

INDEX

[ Cerebral blood flow-Chlorpromazine ]

effect of changes in CBF on proportion of high and low flow tissue in brain, 90
effect of simulated SAH on CBF in monkeys, 664
effect of stepwise arterial hypotension on blood flow and oxidative metabolism, 339
effect of sympathomimetic drug stimulation on cerebral and CBF in dogs, 355
effects of arterial hypoxemia, hypercapnia, and changes in cerebral perfusion pressure on CBF and sagittal sinus pressure, 242
estimating total CBF from initial slope of hydrogen washout curves, 149
global ischemia in dogs, 21
after head injury, 337
immediate effects of cerebral ischemia, 321
influence of cerebral vasoconstricting and vasodilating agents on CBF in regions of focal ischemia, 642
local CBF and vascular reactivity in chronic stable stroke in baboons, 463
measurement of CBF in rats, 234
measurements and “look through” artifact in focal cerebral ischemia, 121
neural control of, 654
paradoxical cerebral hemodynamic effect of hydralazine, 402
polargraphical measurement of local CBF in primates, 42
positive scans in recanalized cerebral infarction, 132
post-ischemic regulation, 425
pressure-flow relationships of brain blood in monkeys, 337
radioactive microsphere determination in CBF in rhesus monkeys, 220
regional (rCBF) changes after bilateral external carotid artery ligation in baboons, 533
changes associated with carotid endarterectomy, 227
in chronic subdural hematomas, 723
during brain work, 225
effects on cerebral tissue oxygen availability in cerebral embolism, 549
experimental errors in calculating rCBF from intracarotid xenon-133 clearance curve, 370
in impending brain death, 534
metabolic rate of oxygen and CSF in meninges and ependymal neurons, 339
and oxygen availability determined at same point, 225
response to hypopcapnia, 503
rCBF measurement by gamma camera after direct injection of xenon-133, 376
krypton-85 and xenon-133 in incomplete ischemia, 450
rapid method for evaluation after injection of xenon-133, 558
in rats utilizing xenon-133, 630
by xenon-133 inhalation, 142, 245
regulation of brain microcirculation by central noradrenergic neurons, 222
use of parametric displays in assessment of rCBF, 227
vasodilators and blood flow in ischemia, 642
Cerebral circulation time with ruptured intracranial aneurysms, 207
Cerebral cortex
CSF in cerebral hemorrhage and infarction, 638
Cerebral energy metabolism following SAH, 1
Cerebral infarction
anisocoria and, 697
association of CI with local intravascular coagulation, 221
barbiturate protection from CI in baboons, 28
brain scanning in cerebral vascular disease, 136
carotid arterial elastic hyperplasia in newborn, 391
rCBF response to hypopcapnia, 503
cerebrospinal fluid in cerebral hemorrhage and, 638
circulatory and metabolic effects of glycerol infusion in CI, 720
clinopathological study, 723
computed tomography in management of, 105
diagnostic value of brain scans in CI after recanalization, 449
discrepancies between arterial recanalization and clinical improvement in CI, 727
disordered neurotransmitter function, 172, 450
effect of experimental CI in rat brain on catecholamines and behavior, 729
effect on rCBF on contralateral hemisphere, 160
evidence for disordered cyclic AMP metabolism in patients with, 722
evolution of changes after occlusion of middle cerebral artery in primates, 96
experimental stroke in gerbils, 234
focal incomplete cerebral ischemia in squirrel monkey, 270, 279
glycerol versus dexamethasone in treatment of cerebral edema in, 724
“hot stroke” and transient vascular occlusions, 517
immediate effects of cerebral ischemia, 321
influence of anesthesia on responses to regional cerebral ischemia, 405
pathological studies on intracerebral and retinal arteries, 263
in PICA territory, 723
positive scans in angiographically proved cases of recanalized CI, 132
redistribution of rCBF after glycerol infusion in acute CI, 335
Cerebral ischemia
blood flow measurements and, 121
effects of bilateral carotid artery ligation, 62
Cerebral perfusion pressure
post-ischemic regulation of CBF, 425
Cerebral thrombosis
positive scans in recanalized cerebral infarction, 132
Cerebral vasoactivity
comparative study of, in vascular sclerosis of brain in elderly, 673
Cerebral veins
spontaneous thrombosis of deep cerebral veins, 164
Cerebrospinal fluid
arterial lactate, pyruvate and acid-base balance, 707
in cerebral hemorrhage and infarction, 638
diagnostic significance of CSF spectrophotometry in CVD, 347
disordered neurotransmitter function, 460
Cerebrovascular accidents
frequency of coronary heart disease and, in parents and sons, 213
short-term prognosis, 95
Cerebrovascular disease
anticoagulant therapy, 725
brain scanning in, 136
cerebral atherosclerosis and selected diseases in Nigerians, 395
classification and outline of cerebrovascular diseases II, 565
effectiveness of antiedema agents in stroke, 353
hyperlipoproteinemia in occlusive, 728
in Japanese and other population groups in Hawaii, 539
spectrum of CV occlusive disease suitable for microvascular bypass surgery, 729
value of colour subtraction of angiograms, 720
Cerebrovascular insufficiency
kinking and coiling of internal carotid artery and, 649
Cerebrovascular lesions
active antihypertensive treatment and improve heart valve surgery, 220
Cerebrovascular resistance
effect of simulated SAH on CBF in monkeys, 664
vasodilators and blood flow in ischemia, 642
Cervical fusion
hindbrain stroke in children, 153
Chemodetomas
internal carotid artery supply to temporal bone chemodectomas, 724
Children and infants
carotid arterial elastic hyperplasia in newborn, 391
hindbrain stroke caused by extracranial vertebral artery trauma, 153
idiopathic parasymval ventricular tachycardia, 459
spontaneous thrombosis of deep cerebral veins, 164
surgical treatment
kinking and coiling of carotid artery, 649
unilateral nerve deafness, 729
venous thrombosis, 91
vertebrobasilar arterial occlusions, 343
Chiropractic manipulation
stroke following, of spine, 97
traumatic vertebral artery pseudoaneurysm following, 723
PCP-P-Chlorophenylalanine (PCPA)
decrease in stroke incidence rate after pretreatment in gerbils, 226
Chlorpromazine
for cerebral vasospasm, 233
Electron microscopy
endothelial cell ischemic injury, 357
ischemic carotid endothelium, 457
review of first 650 patients, 208

Embolism
amaurosis fugax, 493
artificial embolization of MCA in primates, 387
atheromatous emboli
to lumbarosacral spinal cord, 411
in renal biopsies, 457
cerebrovascular
brain scan in cerebral ischemia, 703
hypertension and retinal vascular insufficiency, 509
positive scans in recanalized cerebral infarction, 132
rapid resolution of coronary emboli, 216

Encephalomalacia
spontaneous thrombosis of deep cerebral veins, 164

Encephalopathy, hypertensive
“breakthrough” versus angiospasm in, 225

Endarterectomy, carotid
amaurosis fugax and, 493
aneurysms following endarterectomy associated with patch
graft angioplasty, 729
carotid artery back pressure and, under regional anesthesia, 334
carotid compression tonography, 257
cerebral blood flow measurements, 121
changes in rCBF associated with, 227
complications and preoperative assessment of risk, 720
effects on mechanical properties of carotid sinus, 347
ECG changes following, 346
occlusion of carotid artery, 17
sequential morphological changes at site of, 335
under regional anesthesia, 357

Endothelial cell ischemic injury
effect of heparin or aspirin, 357
and induction of atherosclerosis in normolipemic rabbits by
human serum, 557

Endothelial regeneration
in rat carotid artery, 556

Endothelium
ischemic carotid, 457
Energy metabolism
during brain ischemia, 678
following SAH, 1

Epidemiological studies
of cerebral apoplexy and MI in Japan, 455
coronary heart disease and stroke in Japanese men living in
Japan, Hawaii and California, 227
lipid composition of cerebral vessels in American Negroes,
Caucasians and Africans, 298
and patterns of care of stroke patients, 208

Epilepsy
Todd’s paralysis, 301
Epsilon-aminocaproic acid
antifibrinolytic therapy in recent onset SAH following ruptured
intracranial aneurysm, 622

Estrogen
effect of oral contraceptive on blood coagulation and fibrinolysis,
728

Evans County, Georgia
corneal arcus and CVD, 556

Exercise
effect on blood catecholamine levels, blood coagulation and
fibrinolytic activity, 558
Extracranial cerebrovascular disease
hindbrain stroke in children, 153
Extracranial-intracranial arterial bypass
occlusion of carotid artery, 17
Extracranial-intracranial arterial shunting
end-to-side anastomosis of superficial temporal artery to middle
cerebral artery branch, 97

Eyes
intracocular and optic nerve sheath hemorrhage in sudden intracranial hypertension, 89

Facial nerve
hemifacial spasm secondary to vascular compression of, 459
Facial pain
external carotid occlusive disease as cause of, 334

INDEX

Family studies
hemiplegic migraine, 730
intracranial aneurysms, 218, 334
Fibrin complexes
in experimental thrombotic states, 213
Fibrinoid degeneration
pathological studies on intracerebral and retinal arteries, 263
Fibrinolysis
effect of oral contraceptive estrogen on blood coagulation and,
228
Fibrodyplasia
arterial, 727
extracranial internal carotid and vertebral artery, 94
Fibromuscular dysplasia
of internal carotid artery, 335
Fluorescence
NADH fluorescence and cortical blood flow in monkey cortex,
270
supersensitivity of pial vascular adrenoceptors, 525
Free fatty acids
assessment of insulin, glucose and lipids in cerebrovascular
disease, 77

Gallium-67
nonspecificity in differentiating cerebral infarction from cerebral
tumor, 95
Gastrointestinal infarction
hypertension and retinal vascular insufficiency, 509

Giant cell arteritis
corticosteroid treatment, 552
light and electron microscopic studies on temporal arteries, 356
temporal arteriography and biopsy, 346

Gliomas
characterization of malignant gliomas and CV disease by cerebral
dynamic studies, 199
Glucocorticosteroids
for intracranial vasospasm, 726

Glucose
assessment of insulin, glucose, and lipids in cerebrovascular
disease, 77
cronic diabetes followed by cerebral ischemia, 432
effects of oxygen saturation and PCO2 on brain uptake of glucose
analogues in rabbits, 691
global ischemia in dogs, 21
local glucose consumption in brain in vivo, 236
Glutamic oxaloacetic transaminase (SGOT)
cronic diabetes followed by cerebral ischemia, 432

Glutamic pyruvic transaminase (SGPT)
cronic diabetes followed by cerebral ischemia, 432

Glycerol
rCBF after glycerol infusion in acute CI, 335
circularity and metabolic effects in CI, 720
dose response curve in treatment of cerebral edema due to
trauma, 214
effects on brain water and electrolytes, 338
versus dexamethasone in treatment of cerebral edema, 724

Glycology
pattern of activation in cerebral cortex during hypoxic hypoxia,
457
Glycocalyx
metabolites
influence of complete ischemia on, 347

Grafts
comparison of blood flow and patency in arterial and vein grafts
to basilar artery, 445

Gray matter
atheromatous emboli to lumbarosacral spinal cord, 411
rCBF estimated by xenon-133 inhalation method, 142, 245
CSF in cerebral hemorrhage and infarction, 638

Halothane
barbiturate protection from cerebral infarction in primates, 28
influence on responses to regional cerebral ischemia, 405
vasodilators, vasoconstrictors and blood flow in ischemia, 642

Head injuries
rCBF and intraventricular pressure, 457
cerebral circulation following, 337
molding of posterior communicating artery in downward trans-
tentorial herniation, 212

Stroke, Vol. 6, November-December 1975
745
Head rotation
  kinking, coiling of internal carotid artery and CVD, 649

Headaches
  hemiplegic migraine: cerebrospinal fluid abnormalities, 97
  prophylactic treatment of migraine with propranolol, 208

Hearing loss
  unilateral nerve deafness in childhood, 728

Heat stroke
  disseminated intravascular coagulation in, 458

Hematomas
  acute subdural hematomas of arterial origin, 207

  cerebellar and pontine
  disseminated intravascular coagulation in, 467
  chronic subdural, 344
  simulating TIA, 344
  experimental intracerebral, 89
  contralateral gaze deviation with supratentorial hemorrhage, 456
  posterior fossa, diagnosis by axial tomography, 467
  regional cerebral blood flow, 725

  in regularly hemodialyzed patients, 552

Hemifacial spasm
  and facial nerve distortion, 459

Hemiplegia
  associated with Coxsackie A9 viral infection in children, 460
  effect of dantrium on spasticity in, 725
  familial hemiplegic migraine, 730
  perceptual problems in, 336
  postangiographic hemiplegia treatment with vasopressors, 335
  shoulder lift for, 340

Hemispheric activity
  characterization of malignant gliomas and CV disease by cerebral
dynamic studies, 199

Hemispheric lesions
  Behr pupil revisited, 697

Hemodialysis
  subdural hematoma, 552

Hemorrhages
  cerebral
  brain scanning in cerebral vascular disease, 136
  CSF and arterial lactate, pyruvate and acid-base balance in, 715
  cerebrospinal fluid in cerebral infarction and, 638
  experimentally induced intracerebral and SAH in dogs, 715
  and occult sepsis, 214
  pathological studies on intracerebral and retinal arteries, 263
  cerebral atherosclerosis and selected diseases in Nigerians, 395
  CF changes in brain during hemorrhagic shock, 459
  computed tomography in management of, 108
  intracerebral and optic nerve sheath, 89
  intraparenchymal, 638
  lactate and pyruvate, and acid-base balance of CSF, 715
  pontine angiography of, 93
  posterior fossa localization by computerized tomography, 729
  spontaneous spinal edipural, 214, 554

  subarachnoid. See Subarachnoid hemorrhage (SAH)

Heparin
  actions and interactions of antithrombin III, 460
  complications of, 730
  disseminated intravascular coagulation in heat stroke: response to, 458
  effect on endothelial cell ischemic injury, 357
  effects on cerebrovascular ultrastructure, 535

  management of heparin therapy, 729
  thrombocytopenia and, 530

Herpes zoster ophthalmicus
  and delayed contralateral hemiparesis, 97

Hindbrain stroke
  in children caused by extracranial vertebral artery trauma, 153

Histamine
  effects on cerebrovascular ultrastructure, 535
  potentiation of nerve- and drug-induced responses of rabbit
cerebral artery, 355

Hospitals
  measurement of outcomes of care for stroke patients, 34

“Hot stroke” phenomenon
  and transient vascular occlusions, 517

Hydralazine
  carodaxial cerebral hemodynamic effect, 402

Hydrocephalus
  normal pressure hydrocephalus and hypertensive CVD, 211
tomography in diagnosis of cerebellar and pontine hematomas, 467

Hydrogen
  polarographical measurement of local CBF in primates, 42

Hydrogen washout technique
  estimating total CBF from initial slope of hydrogen washout
curves, 149

Hydroxylchloroquine sulphate
  prevention of postoperative deep venous thrombosis, 95

5-Hydroxytryptamine
  quantitative in vitro vasoactivity on human basilar artery, 727

Hypercarnia
  cerebral blood flow measurements, 121
  effects on oxygen saturation and PCO2 on brain uptake of glucose
analogues, 691
  estimating total CBF, 149
  measurement of CBF in rats, 630

Hypercholesterolemia
  animal model of TIA, 617

Hyperlipoproteinemia
  in occlusive CVD, 728

Hyperplasia
  carotid arterial elastic hyperplasia in newborn, 391

Hypertension
  angiography of cerebral hemorrhage secondary to, 459
  antihypertensive therapy
  appraisal of drug therapy, 98
  effect on stroke recurrence, 97
  return of elevated blood pressure after withdrawal of, 721
  strategies for improving compliance, 724
  blood-brain barrier dysfunction
  in acute arterial hypertension induced by clamping of thoracic
aorta, 88
  after papaverine-induced vasodilatation, 208
  cerebral atherosclerosis and selected diseases in Nigerians, 395
  cerebral blood flow in acute, 90
  cats after acute hypertensive insult, 188
  deleterious effects of atherogenic diet and, on development of
atherosclerosis in monkeys, 210
  dexamethasone therapy for coma following treatment of severe
arterial hypertension, 211
  education of physicians in high blood pressure, 559
  hemodynamic and humoral characteristics, 549
  impaired autoregulation of CBF in diabetics, 497
  influence of hypoxemia and, on arterial biochemistry and mor-
phology in swine, 215

  intracranial
  cerebral energy metabolism after SAH, 1
  effect of simulated SAH on CBF in monkeys, 664
  intraocular and optic nerve sheath hemorrhage in, 89
  learned control of blood pressure, 450
  management of acute hypertensive crises with clonidine, 210
  normal pressure hydrocephalus and, 211
  pathological studies on intracerebral and retinal arteries, 263
  reduced baroreceptor sensitivity in borderline, 720
  regional CBF, 88
  and retinal vascular insufficiency, 509
  testing among high school students, 730

Hypertriglyceridermia
  effects of polyunsaturated fats on lipid metabolism, 451
INDEX

[Hyperventilation-Lipids and lipoproteins]

global ischemia in dogs, 21
immediate effects of cerebral ischemia, 321
increase and changes in microcirculation of pial and iridial vessels, 549
paradoxical cerebral hemodynamic effect of hydralazine, 402
iron trace metal content of cerebral vessels, 684
Ischemia, cerebral
amaurosis fugax, 493
animal model of TIA, 617
brain H+ catecholamine metabolism in, 553
brain scanning, 703
brain-stem, respiratory and cardiac abnormalities, 723
cerebral energy metabolism after SAH, 1
chronic diabetes followed by, 432
effect of CI on rCBF of contralateral hemisphere, 160
effect of postischemic hyperemia on intracranial pressure and no-reflow phenomenon, 341
effects on Mg++ requiring vesicular ATPase, 225
electrical activity changes corresponding to different degrees of, 338
energy metabolism during, 678
experimental effect on cerebral water and electrolytes, 88
study with intracarotid ADP infusion in rabbits, 617
global ischemia in dogs: intracranial pressures, CBF and metabolism, 21
immediate effects of: neurological deficits after occlusion of one middle cerebral artery in cats, 321
influence of cerebral vasococonstricting and vasodilating agents on blood flow in regions of focal ischemia, 642
influence of complete ischemia on glycolytic metabolites, 347
NADH in cerebral cortex, 270, 279
no-flow state following: role of increase in potassium in brain fluid, 724
phospholipid metabolism during, 72 reduced nicotinamide adenine dinucleotide fluorescence in monkey cortex, 233
regional, influence of anesthetics on responses to, 405
resuscitation of monkey brain after one hour's complete ischemia, 454
simultaneous assessment of neuronal function and rCBF in cerebral cortex of cats, 234
Todd's paralysis, 301
transient global amnesia, 513
Ischemic thrombotic cerebrovascular disease
assessment of insulin, glucose, and lipids in, 77
serum lipids and uric acid relationship, 304

J
Japanese
cerebral atherosclerosis, 348
epidemiological study of cerebral apoplexy and MI in Japan, 455
patterns of CVD, 539
Joint Committee for Stroke Facilities
Central Office Staff, 103
Computed Tomography in Management of Cerebrovascular Disease, 105

K
Ketamine
effect on rCBF, 342

L
Lactate
effects of bilateral carotid artery ligation, 62
Lactate and pyruvate concentrations
and acid-base balance of CSF in intracerebral and SAH hemorrhage, 715
and acid-base balance in CSF and arterial blood, 707
Lactic dehydrogenase (LDH)
chronic diabetes followed by cerebral ischemia, 432
Letters to the editor, 206
on importance and relevance of studies of pial microcirculation, 206
Lipids and lipoproteins
assessment of insulin, glucose, and lipids in CVD, 77
chronic diabetes followed by cerebral ischemia, 432

Hyperventilation
rCBF response to hypocapnia, 503
CSF and arterial lactate, pyruvate and acid-base balance in intracranial hemorrhages, 707
effects of bilateral carotid artery ligation, 62
Hypocapnia
cerebral blood flow measurements, 121
rCBF response to, 503
effects of bilateral carotid artery ligation, 62
effects of oxygen saturation and PCO2 on brain uptake of glucose analogues, 691
estimating total CBF, 149
measurement of CBF in rats, 630
Hypoglossal nerve
paralysis and tortuosity of internal carotid artery, 92
Hypoxia
of Circle of Willis with basal angiomatosis and collateral circulation presenting as SAH, 553
Hypotension
cerebral angiography, 343
effects on rhesus monkeys, 723
idiopathic orthostatic, 214
Hypoxia
influence of hypertension and, on arterial biochemistry and morphology in swine, 215
Hypoxia
of cerebral metabolism in hypoxic, 457
citrine acid cycle intermediates and associated amino acids, 458
pattern of activation of glycolysis, 457
effect on vascular responses to carotid reflex, 451
effects of oxygen saturation and PCO2 on brain uptake of glucose analogues, 691
ion movement, oxygen tension and intracellular redox state during, 236
lactate and pyruvate, and acid-base balance of CSF in SAH, 715
Hypoxic synaptosomes
catecholamine synthesis, 227

I
Immunofluorescence techniques
localization of apo-lipoproteins in carotid artery plaques, 531
Incidence of stroke
in women of childbearing age, 557
Inhalation techniques
comparison of Xe133 intracarotid injection and, 235
Initial slope index
rCBF measured by xenon-133 inhalation, 142
estimating total CBF from initial slope of hydrogen washout curves, 149
Injuries
diffuse experimental brain injury, 453
See also Head injuries
Instrumentation
magnetic, for vascular exploration and treatment, 342
Insulin
assessment of insulin, glucose and lipids in ischemic thrombotic cerebrovascular disease, 77
Internal carotid artery
See Carotid artery, internal
Internal cerebral vein
normal and pathological variations in position and configuration, 87
International Round Table Conference
on platelet aggregation in pathogenesis of CVD, 239
Intracerebral arteries
pathological studies on retinal arteries and, 263
Intracerebral hemorrhage
and occult sepsis, 214
Intracranial pressure
CBF in cats after acute hypertensive insult, 188
cranial window implantations for acute and chronic experiments, 308
effect of postischemic hyperemia on, no-reflow phenomenon and, 441
effects of increased, upon cerebral blood volume, CBF and oxygen, 231
focal myocardial necrosis in cases of increased, 453
Stroke, Vol. 6, November-December 1975

Downloaded from http://stroke.ahajournals.org/ by guest on September 24, 2016
INDEX

Mg++ effects of cerebral ischemia on Mg++ requiring vesicular ATPase, 225
trace metal content of cerebral vessels, 684
Magnetic instrumentation for vascular exploration and treatment, 342
Manganese trace metal content of cerebral vessels, 684
Mannitol therapy against brain swelling in stroke, 353
Meckel’s Cave meningiomas with SAH, 727
Medroxyprogesterone effects on blood coagulation and platelet aggregation, 216
Medul-layer veins radiographic anatomy of normal cerebral deep medullary veins, 88
Meningeal artery internal carotid origins of middle, 93
Meningeal branch of posterior cerebral artery, 93
Meningiomas Meckel’s Cave, with SAH, 727
Meningitis rCBF, cerebral metabolic rate of oxygen, and CSF in, 339
Mental deterioration in elderly multi-infarct dementia, 90
Metabolism anaerobic effects of bilateral carotid artery ligation, 62
Methylprednisolone for intracranial vasospasm, 726
Microcirculation constriction of pial arterioles by prostaglandin F₂α, 293
cranial window implantation for acute and chronic experiments, 308
pial microcirculation in SAH, 417
Migraine "complicated migraine" association with increased platelet aggregability and abnormal plasma coagulation, 559
Milkoskludins on carotid blood flow in monkeys, 213
familial hemiplegic, 730
occipital lobe arteriovenous malformations and, 551
prophylactic treatment with propranolol, 208
strokes associated with, 730
Milroy’s disease thrombocytosis and strokes, 218
Mitoehondria energy metabolism during brain ischemia, 678
function in shock, 236
Mitral valve prolapsed leaflets retinal vascular lesions and, 458
Models animal model of TIA, 617
artificial embolization of MCA in primates, 387
brain scan in cerebral ischemia for study of radionuclide localization, 703
chronic stroke model in experimental primates, 476
for producing focal cerebral ischemia and infarction in animals, 321
Mononeuropathology multiplex as complication of amphetamine angiitis, 726
Morality geographic variations of stroke mortality within North Carolina, 227
regional differences in mortality from CVD among U.S. Veterans, 229
relationship to TIA-like symptoms in population sample, 228
 Moyamoya disease associated with several intracerebrovascular aneurysms, 93
familial occurrence, 554
hypoplasia of Circle of Willis with basal angiomatosis, 553
pathomorphological analysis of so-called "Spontaneous occlusion of the Circle of Willis," 93
Multiple sclerosis cellular-immune response to myelin protein absent in, 550
Myddrisis Behr pupil revisited, 697
Myelopathy local spinal cord blood flow in experimental traumatic, 452
Myonecrosis effects of prostaglandins on carotid blood flow in monkeys, 213
of sphenoidal region, 340
function in shock, 236
Myelopathy retinal vascular lesions and, 458
Myelopathy 236
function in shock, 236
Mydriasis Behr pupil revisited, 697
Neurology cerebral blood flow measurements, 121
neurological deficits produced by occlusion of, in awake cats, 235
Neurology posterior circulation vascular disease mimicking, 227
Middle cerebral artery catecholamine content of cerebral tissue after occlusion or manipulation of, 235
changes of epidural pressures after occlusion of, 235
neurological deficits produced by occlusion of, in awake cats, 235
Neurology posterior circulation vascular disease mimicking, 227
Middle cerebral artery occlusion artificial embolization in primates, 387
barbiturate protection from cerebral infarction in primates, 28
didirectional flow of contrast material, 340
carotid arterial supply of feline brain, 361
Middle cerebral artery occlusion artificial embolization in primates, 387
carotid blood flow measurements, 121
by gamma camera after injection of xenon-133, 376
chronic stroke model in primates, 476
cortical pyridine nucleotide fluorescence following, 236
experimental occlusion by transorbital approach, 348
with formation of abnormal arterial collateral system, 87
immediate effects of cerebral ischemia after, 321
thrombectomy of, 721
Middle internal carotid occlusions discrepancies between arterial recanalization and clinical improvement in CI, 727
NADH. See Nicotinamide adenine dinucleotide
Noctinoma formation in rabbit aorta, 450
Neuroamine metabolites in cerebrovascular disease, 227
Neural deficit brain scanning in cerebral vascular disease, 136
CSF and arterial lactate, pyruvate, and acid-base balance in intracranial hemorrhages, 707
CSF in cerebral hemorrhage and infarction, 638
produced by occlusion of middle cerebral artery in cats, 235, 321
Neural alteration in developing cortical infarction, 340
Neuroanatomy of sphenoidal region, 452
Nicotinamide adenine dinucleotide fluorescein and cortical blood flow
animal preparation, instrumentation and validity of model, 270
effects of alterations in arterial carbon dioxide tension, blood pressure, and blood volume, 279
Nicotine effect on platelet aggregation, 86
Nitrous oxide measurement of CBF in rats, 630
No-flow state following cerebral ischemia, 724
Noninvasive screening tests carotid compression tonography, 257

( [Lipids and lipoproteins—Noninvasive screening tests] )

composition of cerebral vessels in American Negroes, Caucasians and Nigerian Africans, 298
effects of polyunsaturated fats on lipid metabolism in hypertriglyceridemia, 451
lipid CSF in patient with cerebral hemorrhage, 85
localization of apo-lipoproteins in carotid artery plaques, 531
relationship to cerebral atherosclerosis and ECG findings, 219
serum lipids and uric acid relationship in ischemic thrombotic cerebrovascular disease, 304
"Locked-in" syndrome, 344
"Look through” vasodilators and blood flow in ischemia, 642
Lumbar puncture CSF in cerebral hemorrhage and infarction, 638
"Luxury-perfusion syndrome” following cerebrovascular accident, 217
vasodilators and blood flow in ischemia, 452

748

Stroke, Vol. 6, November-December 1975
### Pressure
- arterial blood. See Arterial blood pressure
- intracranial. See Intracranial pressure

### Pressure-flow relationships
- of brain blood flow in monkeys, 337

### Propranolol
- pial microcirculation in SAH, 417

### Prostaglandins
- constriction of pial arterioles by, 293
- effect on carotid blood flow in monkeys, 339
- experimental study on genesis of cerebral vasospasm, 52

### Protein
- distribution of serum protein in walls of blood vessels, 232

### Pseudoaneurysms
- and arteriovenous fistula involving middle meningeal artery, 453

### Pulmonary edema
- and hemorrhage as consequence of systemic vasoinconstriction, 90

### PULSES Profile
- measurement of outcomes of care for stroke patients, 34

### Pupillary changes
- anisocoria following internal carotid aneurysm, 721
- anisocoria following cerebrovascular accidents, 697
- in oculomotor palsy from internal carotid aneurysm, 721

### Pyridine nucleotide fluorescence
- following middle cerebral artery occlusion in cats, 236

### Pyridone carbamate
- progression of occlusive atherosclerosis, 457

### Pyruvate
- effects of bilateral carotid artery ligation, 62

### Q-T syndrome
- long, 461

### Quotient densitometry
- and cerebral angiography, 213

### Radiosotope studies
- brain scan in cerebral ischemia, 703
- brain scanning in diagnosis and management of strokes, 659
- brain scanning with technetium 99m pertechnetate, 726
- characterization of malignant gliomas and cerebrovascular disease, 199

### Retina
- hemoglobin SC retinopathy and fat emboli to the eye, 85
- retinocephalic vascular malformations, 93

### Retinal artery
- central retinal artery occlusion after blow-out fracture repair, 219
- occlusion, 458

### Retinal ischemia
- amaurosis fugax and, 493

### Retinal periarteritis
- secondary to syphils, 727

### Retinal vascular disease
- Wagener and Keith Classification, 616

### Retinal vascular insufficiency
- hypertension and, 509

### Retinal vascular lesions
- with prolapsed mitral valve leaflets, 458

### Revascularization, cerebral
- use of axillary artery, 453

### Rheumatoid arthritis
- cerebral vasculitis, 550

### Rhinocerebral phycomycosis
- and internal carotid artery thrombosis, 454

### Risk factors
- abnormalities in clotting and thrombolysis as risk factor for stroke, 236
- assessment of insulin, glucose, and lipids in cerebrovascular disease, 77
- bilateral internal carotid artery thrombosis, 725
- serum lipids and uric acid relationship in ITCVD, 304
- stroke in the young, 318
- urinary salt: its relationship to selected stroke risk factors, 228

### S

#### Salzburg Conference
- summary of, 109

#### Scanning electron microscopic studies
- on atherosclerosis in pigs, 232
- EMI scanners, 208

#### Scilta-glycosides
- cerebral vascular ultrastructural alterations after infusions of, 555

#### Scintigraph
- effect of cerebral angiography on subsequent brain scintigraphy, 335
- techniques for positron scintigraphy of cerebral function, 228

#### Scintigraphy
- characterization of malignant gliomas and CV disease, 199

#### Scintigraphograph
- cerebral death, 673

#### Seizures
- angiocraphic stain produced by, 210

#### Serotonin
- constriction of pial arterioles by prostaglandins, 293

#### Seventh International Salzburg Conference
- summary of, 109

#### Shock
- hemorrhagic
- CBF and metabolism in baboons, 237
- CBF changes in brain during, 459
- mitochondrial function, 230

#### Sick-sinus syndrome
- in Africans, 480
- experience of cardiac pacemaker clinic, 212

#### Sodium
- effects of salt overloading on atherosclerosis and blood pressure in primates, 9
- urinary salt: its relationship to selected stroke risk factors, 228

#### Spasms
- experimental catecholamine-induced chronic cerebral vasospasm, 207
- experimental study on genesis of cerebral vasospasm, 52
- See also Vasospasms, cerebral

#### Spasmogens
- experimental study on genesis of cerebral vasospasm, 52

#### Spasticity
- effect of dantrium on, 725
- effect of dantrolene sodium on, 217, 554

#### Spectrofluorometric analysis
- NADH in cerebral cortex, 270
INDEX

Vasoreactivity
comparative study of, 673

Vasospasms, cerebral
agents and mechanisms of, 230
antifibrinolytic therapy in recent onset SAH following ruptured intracranial aneurysm, 622
constriction of pial arterioles by prostaglandins, 293
effect of simulated SAH on CBF in monkeys, 664
effects of vasoactive drugs and sympathectomy on, 551
experimental catecholamine-induced chronic cerebral vasospasm, 207
experimental study on genesis of, 52
experimental vasospasm in cats: modification by vasodilator YC-93, 726
mechanisms in, 353
myonecrosis in chronic experimental, 85
pial microcirculation in SAH, 417
relief with methylprednisolone and cortisol, 726
resolution by chlorpromazine, 233
role of prostaglandin in etiology of, 230
some considerations on, 461
with SAH from arteriovenous malformations of the brain, 452
Venous channels
within the intracranial dural partitions, 723

Venous thrombosis
in infants and children, 91
prevention of postoperative deep venous thrombosis in legs by orally administered hydroxychloroquine sulphate, 93

Venous complications
barbiturate protection from CI in primates, 28

Vertebral arteries
artifactual absence: auxiliary catherization, 87
erosion of cerebral vertebrae caused by elongated and tortuous vertebral arteries, 87
fibromuscular dysplasia, 455
hindbrain stroke in children caused by trauma, 153
traumatic pseudoaneurysm following chiropractic manipulation, 723

Vertebral-basilar insufficiency
comparison of betahistine hydrochloride with placebo for, 116
treatment with betahistine hydrochloride, 214

Vertebrobasilar artery occlusive disease
and cervical spine anomaly, 557
in children, 343
hindbrain stroke in children, 153

Vertebrobasilar ischemia
and fibromuscular dysplasia of vertebral arteries, 455

Visual field defects
arterial occlusion in posterior cerebral circulation, 336
arteriovenous malformations of head and neck and, 558
vascular-induced homonymous defects of visual field in young women, 552

W
Warfarin
for chondroplasia punctata, 559
induced hypoprothrombinemia, 450
interactions with chloral hydrate and glutethimide, 216, 460
interactions with five sedatives, 349

Water
brain capillary permeability studies of alcohols and, 349
brain capillary permeability studies of chlorpromazine and, 214
constriction of pial arterioles by prostaglandins, 293
drug of choice for treatment of SAH from arteriovenous malformations of the brain, 461
experimental study on genesis of, 52
hemorrhagic and ischemic stroke, 622
hindbrain stroke in children caused by trauma, 153
hypotensive agents, 283
myonecrosis in chronic experimental, 85
pial microcirculation in SAH, 417
relief with methylprednisolone and cortisol, 726
resolution by chlorpromazine, 233
role of prostaglandin in etiology of, 230
some considerations on, 461
with SAH from arteriovenous malformations of the brain, 452

X
Xanthomatosis
effects of salt loading on atherosclerosis and blood pressure in primates, 9

Xenon-133
cerebral blood flow measurements, 121, 142
by gamma camera after direct injection of, 376
in rats, 630

U
Ultrastructure
of calcification in Sturge-Weber disease, 725
Uric acid
serum lipids and uric acid relationship in ITCVD, 304

V
Vascular pathology
endothelial cell ischemic injury, 357
Vascular sclerosis
comparative study of cerebral vasoactivity in brain in elderly men, 673
Vasculitis
cerebral vasculitis in rheumatoid arthritis, 550

Vasoactivity
of 5-hydroxytryptamine on human basilar artery, 727
Vasoconstrictors
influence of vasodilators and, on blood flow in region of focal ischemia, 642

Vasodilating drugs
action on basilar, coronary and mesenteric arteries of dogs, 220
Vasodilators
effect of cyclandelate on dementia, 535
effect of YC-93 on experimental cerebral vasospasm in cats, 726
influence of cerebral vasocostrictors and, on blood flow in regions of focal ischemia, 642

U
Ultrastructure
of calcification in Sturge-Weber disease, 725
Uric acid
serum lipids and uric acid relationship in ITCVD, 304

V
Vascular pathology
endothelial cell ischemic injury, 357
Vascular sclerosis
comparative study of cerebral vasoactivity in brain in elderly men, 673
Vasculitis
cerebral vasculitis in rheumatoid arthritis, 550

Vasoactivity
of 5-hydroxytryptamine on human basilar artery, 727
Vasoconstrictors
influence of vasodilators and, on blood flow in region of focal ischemia, 642

Vasodilating drugs
action on basilar, coronary and mesenteric arteries of dogs, 220
Vasodilators
effect of cyclandelate on dementia, 535
effect of YC-93 on experimental cerebral vasospasm in cats, 726
influence of cerebral vasocostrictors and, on blood flow in regions of focal ischemia, 642

INDEX

Vasoreactivity
comparative study of, 673

Vasospasms, cerebral
agents and mechanisms of, 230
antifibrinolytic therapy in recent onset SAH following ruptured intracranial aneurysm, 622
constriction of pial arterioles by prostaglandins, 293
effect of simulated SAH on CBF in monkeys, 664
effects of vasoactive drugs and sympathectomy on, 551
experimental catecholamine-induced chronic cerebral vasospasm, 207
experimental study on genesis of, 52
experimental vasospasm in cats: modification by vasodilator YC-93, 726
mechanisms in, 353
myonecrosis in chronic experimental, 85
pial microcirculation in SAH, 417
relief with methylprednisolone and cortisol, 726
resolution by chlorpromazine, 233
role of prostaglandin in etiology of, 230
some considerations on, 461
with SAH from arteriovenous malformations of the brain, 452
Venous channels
within the intracranial dural partitions, 723

Venous thrombosis
in infants and children, 91
prevention of postoperative deep venous thrombosis in legs by orally administered hydroxychloroquine sulphate, 93

Venous complications
barbiturate protection from CI in primates, 28

Vertebral arteries
artifactual absence: auxiliary catherization, 87
erosion of cerebral vertebrae caused by elongated and tortuous vertebral arteries, 87
fibromuscular dysplasia, 455
hindbrain stroke in children caused by trauma, 153
traumatic pseudoaneurysm following chiropractic manipulation, 723

Vertebral-basilar insufficiency
comparison of betahistine hydrochloride with placebo for, 116
treatment with betahistine hydrochloride, 214

Vertebrobasilar artery occlusive disease
and cervical spine anomaly, 557
in children, 343
hindbrain stroke in children, 153

Vertebrobasilar ischemia
and fibromuscular dysplasia of vertebral arteries, 455

Visual field defects
arterial occlusion in posterior cerebral circulation, 336
arteriovenous malformations of head and neck and, 558
vascular-induced homonymous defects of visual field in young women, 552

W
Warfarin
for chondroplasia punctata, 559
induced hypoprothrombinemia, 450
interactions with chloral hydrate and glutethimide, 216, 460
interactions with five sedatives, 349

Water
brain capillary permeability studies of alcohols and, 349
brain capillary permeability studies of chlorpromazine and, 214
constriction of pial arterioles by prostaglandins, 293
drug of choice for treatment of SAH from arteriovenous malformations of the brain, 461
experimental study on genesis of, 52
hemorrhagic and ischemic stroke, 622
hindbrain stroke in children caused by trauma, 153
hypotensive agents, 283
myonecrosis in chronic experimental, 85
pial microcirculation in SAH, 417
relief with methylprednisolone and cortisol, 726
resolution by chlorpromazine, 233
role of prostaglandin in etiology of, 230
some considerations on, 461
with SAH from arteriovenous malformations of the brain, 452

X
Xanthomatosis
effects of salt loading on atherosclerosis and blood pressure in primates, 9

Xenon-133
cerebral blood flow measurements, 121, 142
by gamma camera after direct injection of, 376
in rats, 630

U
Ultrastructure
of calcification in Sturge-Weber disease, 725
Uric acid
serum lipids and uric acid relationship in ITCVD, 304

V
Vascular pathology
endothelial cell ischemic injury, 357
Vascular sclerosis
comparative study of cerebral vasoactivity in brain in elderly men, 673
Vasculitis
cerebral vasculitis in rheumatoid arthritis, 550

Vasoactivity
of 5-hydroxytryptamine on human basilar artery, 727
Vasoconstrictors
influence of vasodilators and, on blood flow in region of focal ischemia, 642

Vasodilating drugs
action on basilar, coronary and mesenteric arteries of dogs, 220
Vasodilators
effect of cyclandelate on dementia, 535
effect of YC-93 on experimental cerebral vasospasm in cats, 726
influence of cerebral vasocostrictors and, on blood flow in regions of focal ischemia, 642

752

Stroke, Vol. 6, November-December 1975

Downloaded from http://stroke.ahajournals.org/ by guest on September 24, 2016
INDEX

comparison of Xe\textsuperscript{133} intracarotid injection and inhalation techniques, 225
- effect of CI on rCBF of contralateral hemisphere, 160
- intracarotid injection method, 160

Xenon-133 clearance curve
- experimental errors in calculating rCBF, 370

Xenon-133 inhalation method, 225
- rCBF estimated by, 245

X-ray examination
- 'iatrogenic' brain stem infarction following, 453

Young adults
- blood pressure behavior, 556
- stroke in the young: four-year study, 318

Z

Zinc
- trace metal content of cerebral vessels, 684
SUBJECT INDEX

Stroke. 1975;6:739-753
doi: 10.1161/01.STR.6.6.739

Stroke is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231
Copyright © 1975 American Heart Association, Inc. All rights reserved.
Print ISSN: 0039-2499. Online ISSN: 1524-4628

The online version of this article, along with updated information and services, is located on the World Wide Web at:
http://stroke.ahajournals.org/content/6/6/739.citation

Permissions: Requests for permissions to reproduce figures, tables, or portions of articles originally published in Stroke can be obtained via RightsLink, a service of the Copyright Clearance Center, not the Editorial Office. Once the online version of the published article for which permission is being requested is located, click Request Permissions in the middle column of the Web page under Services. Further information about this process is available in the Permissions and Rights Question and Answer document.

Reprints: Information about reprints can be found online at:
http://www.lww.com/reprints

Subscriptions: Information about subscribing to Stroke is online at:
http://stroke.ahajournals.org/subscriptions/