

KEY WORDS INDEX (From vol. 27 no. 1 to vol. 27 no. 12, 1999)

[A]

Abducens

- a. nerve palsy 1037
- a. palsy 19

Absorbable mesh 1097

ACA 933

Accessory meningeal artery 447

Acquired stuttering 79

Acute subdural hematoma 157

Adenoma

- a., ectopic pituitary 1007
- a., non-functioning 1007
- a., pituitary 225

Adult 947

- a. T-cell leukemia 55

Aged patients 517

Alopecia 427

Alpha-fetoprotein 269

Anastomosis 799

- a., carotid-basilar 633

Aneurysm 341, 633, 723, 933

- a., cerebral 255, 757, 831
- a., cirroid 851
- a., dissecting 19, 889, 927
- a., distal 177
- a., distal AICA-PICA 1013
- a., intracranial 147
- a., non-ruptured 639
- a., nontraumatic dissecting 743
- a., paraclinoid 809
- a., ruptured 941
- a., ruptured cerebral 993
- a., traumatic cerebral 583
- a., traumatic dissecting 577
- a., unruptured 517, 831

Aneurysmal embolization 49

Angiography 569

- a., 3D CT 993
- a., cerebral 275, 1027
- a., CT 157
- a., three dimensional CT (3D-CTA) 617, 1091
- a., vertebral 1013

Angioma

- a., cavernous 371
- a., venous 233, 371

Angioplasty 1079

- a., percutaneous transluminal 183, 365, 817, 941

Anomaly 933

- a., vascular 341

Anterior

a. cerebral artery 341

a. transpetrosal approach 407

Antitumor effect 119

Apoplexy, pituitary 73

Apoptosis 111, 119, 499

Approach

a., anterior transpetrosal 407

a., pterional 659, 1091

a., transcondylar 633

Arachnoid cyst 377, 653, 895

Arteriosclerosis 189

Arteriovenous

a. fistula 851, 927

a. fistula, dural 563, 1043, 1133

a. malformation 895

a. malformation, high cervical dural 1145

a. malformations, dural 237

Artery

a., accessory meningeal 447

a., anterior cerebral 341

a., basilar 639, 723

a., communicating 177

a., middle cerebral 743

a., middle meningeal 447

a., ophthalmic 809

a., persistent primitive hypoglossal 633

a., posterior inferior cerebellar 177

a., primitive olfactory 933

a., subclavian 365

a., vertebral 19, 645, 927

Astrocytoma

a. grade II 139

a., subependymal giant cell 550

Atlantoaxial dislocation 871

Atlantooccipital dislocation 871

Attack, transient ischemic 1043

Auditory radiation 915

AVM (arteriovenous malformation), cerebellar 249

[B]

Balloon catheter 903

Basal vein of Rosenthal 1091

Basedow's disease 645

Basilar

b. artery 639, 723

b. impression 1037

Biological therapy 9

Biology

b., molecular.....	• 111	c. aneurysm.....	• 255, 757, 831
b., vascular.....	• 111	c. aneurysm, ruptured	• 993
Blood flow, cerebral.....	• 419, 517, 717	c. aneurysm, traumatic	• 583
Bone, sphenoid	• 667	c. angiography.....	• 275, 1027
Brain	• 1105	c. artery, anterior	• 341
b. malformation	• 969	c. artery, middle.....	• 743
b. stem	• 371	c. blood flow	• 419, 517, 717
b. surface.....	• 843	c. cortical venous thrombosis	• 469
b. swelling	• 453	c. hematoma.....	• 483
b. tumor	• 437	c. infarction.....	• 79, 617, 817, 1121
b. tumor, metastatic	• 89, 359	c. neuroblastoma	• 459
		c. vasospasm	• 1031
[C]		Cerebrospinal fluid collection	• 1097
Calvarial tumor.....	• 347	Cerebrovascular disease, occlusive.....	• 61
Cancer, hepatocellular	• 331	Chemotherapy	• 127, 281, 667, 999
Capillary telangiectasia	• 483	Chiari malformation.....	• 1037
Carbamazepine	• 85	Child	• 763
Carcinoma		Chordoid	
c., clear cell	• 359	c. meningioma	• 947
c., maxillary	• 505	Choroid plexus	
c., renal cell.....	• 89	c. plexus metastasis	• 359
Cardiac output.....	• 711	c. plexus papilloma	• 673
Carotid		Chronic subdural hematoma.....	• 323, 431
c. artery.....	• 189	Cigarette smoking	• 831
c. artery, internal.....	• 61, 577, 903	Cirroid aneurysm	• 851
c. artery stenosis	• 817, 1079	Clear	
c. -basilar anastomosis.....	• 633	c. cell	• 843
c. endarterectomy	• 903, 1079	c. cell carcinoma	• 359
c. stenosis	• 183	Cleavage disturbance	• 969
Caspase.....	• 499	Clinical feature	• 243
Catheter, balloon.....	• 903	Clipping, incomplete	• 49
Cauda equina	• 317	Coagulation disorder.....	• 465
Cavernous		Cognitive impairment.....	• 41
c. angioma	• 371	Collateral vessel	• 1047
c. sinus.....	• 505	Communicating artery.....	• 177
Cell		Complication	• 133, 183, 1027
c., clear	• 843	c. of embolization	• 49
c., glioma	• 119	Compound muscle action potentials	• 317
c., neural stem	• 787	Compression	
c., plasma	• 383	c., optic nerve	• 189
Central nervous system	• 55, 999	c., spinal cord	• 645
Cerebellar		Computed tomography	• 921
c. artery, posterior inferior	• 177	Computer-assisted battery.....	• 41
Cerebellar AVM	• 249	Consciousness disturbance	• 1027
c. hematoma.....	• 233, 921	Contrast media	• 1027
c. infarction	• 659	Convulsion.....	• 261
Cerebellopontine angle	• 475	Corpus callosum	• 79, 377
Cerebral		Cortical	
		c. blindness	• 249
		c. deafness	• 915

c. mapping	437
Cranial fasciitis	163
Cranio-cervical junction	237, 1043
Craniopharyngioma	73
Cranioplasty	653, 717
Craniotomy	353, 883
c., stereotactic	1139
c., supratentorial	921
Craniovertebral junction	871
Crossed cerebellar diaschisis	659
Crush injury	557
CSF leakage	825
c. overdrainage	659
CSF reservoir, Ommaya	323
CT	163, 557, 569
c. angiography	157
c., dynamic	735
c., helical	157
c., xenon-enhanced	717
CTL	1071
Cyst	843
c., arachnoid	377, 653, 895
c., endodermal	475
c., intraventricular	335
c., meningeal	847
c., pituitary	625
c., Rathke cleft	625
[D]	
3D-CT	1013
3D CT angiography	993
Decompression	1019
d., foramen magnum	1037
Deep middle cerebral vein	1091
Defect	
d., skull	653
d., visual field	189
Deficiency, factor XIII	465
Deformity, spinal	525
Dendritic cell based therapy	9
Denervation	25
Dermoid	261
Diaschisis, crossed cerebellar	659
Digital	
d. camera	1111
d. video	1111
Disease	
d., Basedow's	645

d., moyamoya	211, 915, 987, 1047
d., occlusive cerebrovascular	61
d., Rendu-Osler-Weber	483
d., spinal	195
d., von Hippel-Lindau	533
Dislocation	95
d., atlantoaxial	871
d., atlantooccipital	871
Disorder, coagulation	465
Disruption	903
Dissecting aneurysm	19, 889, 927
Dissection	889
d., subintimal	365
Distal	
d. AICA-PICA aneurysm	1013
d. aneurysm	177
Disturbance	
d., cleavage	969
d., consciousness	1027
Dural	
d. arteriovenous fistula	563, 1043, 1133
d. arteriovenous malformations	237
d. ring	809
d. tail sign	67
Dura mater	331
d. mater and outer membrane	431
d. substitute	1097
Duraplasty	825
Dynamic CT	735
Dysembryoplastic neuroepithelial tumor	541
Dysfunction, trigeminal	233
Dysplasia	
d., fibrous	275
d., focal cortical	605
Dysraphism	969

[E]

Ectopia	969
Ectopic pituitary adenoma	1007
EDAMS	987
EEG	605
Elderly	377
e. patients	147
Embolization	895
e., aneurysmal	49
e., complication of	49
e., endovascular	1047
e., intra-aneurysmal	255

En bloc resection • 505
 Endarterectomy, carotid • 903, 1079
 Endodermal cyst • 475
 Endoscope • 699
 Endovascular
 e. embolization • 1047
 e. stent • 183
 e. surgery • 249, 941
 e. treatment • 147, 757
 Ependymoma • 843
 e., supratentorial • 1139
 Epidural
 e. hematoma • 331
 e. hematoma, spontaneous • 1023
 Epilepsy surgery • 541
 EPTFE sheet • 825
 Extracranial metastasis • 269
 Extra-parenchyma • 843
 Extravasation • 157

[F]

Facial
 f. nerve • 799
 f. neurinoma • 171
 f. palsy • 171, 799
 Factor XIII deficiency • 465
 Fenestration • 639, 645
 Fibrin glue • 1097
 Fibrous dysplasia • 275
 Fissure, interhemispheric • 377
 Fistula
 f., arteriovenous • 851, 927
 f., dural arteriovenous • 563, 1043, 1133
 Fixation
 f., posterior • 95
 f., screw • 95
 FMRI • 437
 Focal
 f. cortical dysplasia • 605
 f. motor seizure • 303
 Foramen magnum decompression • 1037
 Fraction, oxygen extraction • 711
 Fracture
 f., odontoid • 95
 f., skull • 557
 f., skull base • 583
 Frameless navigation system • 33
 Functional • 1105

[G]

Galea suturing • 427
 Gamma knife • 171
 Gammopathy • 383
 Gene therapy • 9, 111, 787
 Genetics • 111
 Germinoma • 127, 269
 Giant cell tumor • 667
 Glioblastoma • 447
 Glioma • 1071
 g. cell • 119
 Gore-Tex suture • 825
 Granuloma, lethal midline • 55
 Great auricular nerve • 799
 Guglielmi detachable coil • 255, 757
 Gyration • 969

[H]

Head
 h. injury • 557
 h. injury, penetrating • 583
 Helical CT • 157
 Hemangioblastoma • 533
 Hemangiopericytoma • 453
 Hematoma
 h., acute subdural • 157
 h., cerebellar • 233, 921
 h., cerebral • 483
 h., chronic subdural • 323, 431
 h., epidural • 331
 h., spontaneous epidural • 1023
 h., subdural • 331
 Hemodialysis • 255
 Hemodynamic stress • 177
 Hemorrhage • 851
 h., 4th ventricular • 1013
 h., intracerebral • 419, 751, 915
 h., intracranial • 61, 465, 763
 h., intratumoral • 73
 h., intraventricular • 359, 1047, 1133
 h., pontine • 353
 h., postoperative • 921
 h., remote • 921
 h., spinal epidural varices without • 911
 h., subarachnoid • 147, 237, 341, 577, 633, 757, 831, 927, 1031, 1145
 h., traumatic subarachnoid • 583
 Hepatocellular cancer • 331

Heterotopia • 969
 High cervical dural arteriovenous malformation .. • 1145
 Histology • 163
 History, natural • 563
 Hydrocephalus, normal pressure • 711
 Hyperemia, inverted cerebral • 453
 Hyperostosis • 1053
 Hypertension, intracranial • 1145
 Hypoglossal nerve • 799
 Hyponatremia • 85, 1031

[I]

Idiopathic thrombocytopenic purpura • 757
 Image-guided surgery • 33
 Imaging
 i., magnetic resonance • 837, 1105
 i., magnetic source • 33
 i., perfusion (PI) • 1121
 Immunohistochemical study • 550
 Immunohistochemistry • 475, 541
 Immunological therapy • 9, 1071
 Impairment, cognitive • 41
 Incomplete clipping • 49
 Indication, surgical • 517
 Infancy • 243
 Infant • 673
 Infarction • 743, 987
 i., cerebellar • 659
 i., cerebral • 79, 617, 817, 1121
 Infection, postoperative • 883
 Injury
 i., crush • 557
 i., head • 557
 i., penetrating head • 583
 Interhemispheric fissure • 377
 Internal carotid artery • 61, 577, 903
 Interventional thrombolytic therapy • 617
 Intra-aneurysmal embolization • 255
 Intracerebral hemorrhage • 419, 751, 915
 Intracranial
 i. aneurysm • 147
 i. hemorrhage • 61, 465, 763
 i. hypertension • 1145
 i. tuberculoma • 837
 Intractable seizure • 605
 Intraoperative monitoring • 317
 Intraosseous meningioma • 275
 Intrasphenoidal tumor • 1007

Intratumoral hemorrhage • 73
 Intravascular
 i. neurosurgery • 255
 i. surgery • 183, 809
 i. cysts • 335
 Intraventricular
 i. hemorrhage • 359, 1047, 1133
 Iobersol • 249
 Iopamidol • 1027
 Irradiation • 667
 Ischemia • 499
 Ischemic stroke • 735

[J]

Junction
 j., cranio-cervical • 1043
 j., craniovertebral • 871

[K]

Kainic acid • 303
 Ketamine • 195

[L]

Laminectomy • 525
 Laminoplasty • 525
 Late recurrence • 89
 Lesion
 l., non traumatic • 851
 l., pituitary • 699
 Lethal midline granuloma • 55
 Leukemia, adult T-cell • 55
 Levator scapulae muscle • 25
 Limbic seizure • 303
 Lipoma, lumbosacral • 317
 Longitudinal rhizotomy • 1019
 Long term survivals • 459
 Lumbosacral lipoma • 317
 Lymphocyte • 383
 Lymphoma
 l., malignant • 999
 l., non-Hodgkin's • 999
 Lymphoplasmacyte-rich meningioma • 383

[M]

- Magnetic
 m. resonance imaging • 837, 1105
 m. source imaging • 33
- Malformation
 m., arteriovenous • 895
 m., brain • 969
 m., Chiari • 1037
 m., dural arteriovenous • 237
 m., high cervical dural arteriovenous • 1145
 m., mixed vascular • 763
- Malignancy • 347
- Malignant
 m. lymphoma • 999
 m. tumor • 505
- Mapping, cortical • 437
- Marfan syndrome • 847
- Medulloblastoma • 281
- Membrane, dura mater and outer • 431
- Meningeal
 m. artery, accessory • 447
 m. artery, middle • 447
 m. cyst • 847
- Meningioma • 67, 383, 837
 m., chordoid • 947
 m., intraosseous • 275
 m., lymphoplasmacyte-rich • 383
 m., microcystic • 569
 m., vacuolated • 569
- Meningitis, tuberculous • 751
- Meningomyelocele • 317
- Mesh and glue technique • 1097
- Metastasis • 331, 347
 m., choroid plexus • 359
 m., extracranial • 269
- Metastatic brain tumor • 89, 359
- MIB-1 • 127
- MIC2 • 243
- Microcystic meningioma • 569
- Micro-pressure-suction-irrigation system • 225
- Microsurgery • 699, 809, 1111
- Middle
 m. cerebral artery • 743
 m. meningeal artery • 447
- Migration • 969
- Mixed vascular malformation • 763
- Molecular biology • 111
- Monitoring
 m., intraoperative • 317
 m., surgical removal • 371
- Moyamoya
 m. disease • 211, 915, 987, 1047
 m. phenomenon • 751
- MRA • 889
- MRI • 163, 261, 275, 475, 569, 605, 625, 889, 947, 1007
- MRSA (methicillin-resistant *Staphylococcus aureus*) • 729
- Mucocele • 1053, 1129
- Multiple • 177
 m. myeloma • 67
- Multipotency • 787
- Mupirocin calcium ointment • 729
- Myeloma, multiple • 67
- ## [N]
- Nasal cavity • 55
- Natural history • 563
- Navigation system, frameless • 33
- Nerve
 n., facial • 799
 n., great auricular • 799
 n., hypoglossal • 799
- Neuralgia, trigeminal • 1019
- Neural
 n. stem cell • 787
 n. transplantation • 787
- Neurinoma
 n., facial • 171
 n., trigeminal • 407
- Neuroblastoma, cerebral • 459
- Neurocysticercosis • 335
- Neurofibromatosis • 927
 n. type 1 • 61
- Neuronavigation • 33
- Neuropathy, vascular compression • 189
- Neuropsychological tests • 41
- Neurosurgery, intravascular • 255
- Neurosurgical unit • 729
- Newborn • 163
- NMDA receptors • 195
- Non-functioning adenoma • 1007
- Non-Hodgkin's lymphoma • 999
- Non-ionic contrast material • 249
- Non-ruptured aneurysm • 639
- Nontraumatic dissecting aneurysm • 743
 n. lesion • 851
- Normal pressure hydrocephalus • 711

[O]

Occlusion therapy	723
Occlusive cerebrovascular disease	61
Odontoid fracture	95
Odor	1105
Olfactory	1105
Ommaya CSF reservoir	323
Open	
o. heart surgery	1023
o. surgery	353
Operation	993
o. shunting	711
Ophthalmic artery	809
Optic	
o. canal stenosis	1053
o. nerve compression	189
Orbit	55
Orbital carcinoma	505
Orbitozygomatic osteotomy	407
Osteotomy	
o. orbitozygomatic	407
o. zygomatic	407
Outcome	347, 735
Oxygen extraction fraction	711

[P]

Palsy	
p., abducens	19
p., abducens nerve	1037
p., facial	799
Papilloma, choroid plexus	673
Paraclinoid aneurysm	809
Parenchyma, parietal	1139
Parietal parenchyma	1139
Patients	
p., aged	517
p., elderly	147
Penetrating head injury	583
Percutaneous	
p. dilational tracheostomy	133
p. transluminal angioplasty	183, 365, 817, 941
Perfusion imaging (PI)	1121
Persistent	
p. embryonal structures	969
p. primitive hypoglossal artery	633
Phenomenon, wind-up	195
Pituitary	
p. adenoma	225

p. apoplexy	73
p. cyst	625
p. lesions	699
Plasma cell	383
Platinum coil	147
PNET	243
Pons	281
Pontine hemorrhage	353
Posterior	
p. fixation	95
p. inferior cerebellar artery	177
Postoperative	
p. hemorrhage	921
p. infection	883
p. irradiation therapy	453
Prevention	729
Primitive olfactory artery	933
Pseudoaneurysm	903
Pterional approach	659, 1091
Purpura, idiopathic thrombocytopenic	757

[R]

Radiation	
r. therapy	139
r., auditory	915
Radiotherapy	171
Radiotherapy	281, 999
Rat	419
Rathke cleft cyst	625
Recanalization	469
Receptors, NMDA	195
Reconstruction, vascular	211
Recurrence	127, 550
r., late	89
Remote hemorrhage	921
Renal cell carcinoma	89
Rendu-Osler-Weber disease	483
Repair	799
Resection, en bloc	505
Restenosis	365
Rhizotomy, longitudinal	1019
Rosenthal, basal vein of	1091
Rupture	261
r., aneurysm	941
r., cerebral aneurysm	993

[S]	
SAH (→subarachnoid hemorrhage)	
SAH, traumatic	• 583
Scalp	• 163, 851, 895
s. closure	• 427
s. shaving	• 883
Schwannoma	• 407
Sclerosis, tuberous	• 550
Screw fixation	• 95
Segment, tonsillomedullary	• 1013
Seizure	
s., focal motor	• 303
s., intractable	• 605
s., limbic	• 303
Self-renewal	• 787
Sella turcica	• 625
Shunting operation	• 711
Shunt, ventriculoperitoneal	• 269
Sign, dural tail	• 67
Simulation study	• 723
Sinus	
s., cavernous	• 505
s., sphenoid	• 1129
s., thrombosis	• 563
s., transverse sigmoid	• 1133
Skull	• 67
s. base	• 505
s. base fracture	• 583
s. defect	• 653
s. fracture	• 557
Spasmodic torticollis	• 25
Sphenoid	
s. bone	• 667
s. sinus	• 1129
Spinal	
s. cord compression	• 645
s. cord tumor	• 533
s. deformity	• 525
s. disease	• 195
s. epidural varices without hemorrhage	• 911
s. instrumentation	• 871
Spontaneous epidural hematoma	• 1023
Status epilepticus	• 303
Stenosis	
s., carotid	• 183
s., carotid artery	• 817, 1079
s., optic canal	• 1053
s., subclavian artery	• 1079
s., vertebral artery	• 1079
Stent	• 365, 817, 1079
Stent, endovascular	• 183
Stereotactic craniotomy	• 1139
Stroke, ischemic	• 735
Structures	
s., persistent embryonal	• 969
s., vascular	• 431
Study	
s., immunohistochemical	• 550
s., simulation	• 723
Subarachnoid	
s. hemorrhage	• 147, 237, 341, 577, 633, 757, 831, 927, 1031, 1145
s. hemorrhage, traumatic	• 583
Subclavian	
s. artery	• 365
s. artery stenosis	• 1079
Subdural	
s. hematoma	• 331
s. hematoma, chronic	• 323, 431
Subependymal giant cell astrocytoma	• 550
Subintimal dissection	• 365
Superficial sylvian vein	• 1091
Supratentorial	• 139
s. craniotomy	• 921
s. ependymoma	• 1139
Surgery	• 1145
s., endovascular	• 249, 941
s., epilepsy	• 541
s., image-guided	• 33
s., intravascular	• 183, 809
s., open	• 353
s., open heart	• 1023
s., transnasal	• 225, 699
s., transsphenoidal	• 625, 667, 699
Surgical	
s. indication	• 517
s. removal monitoring	• 371
s. treatment	• 347
Survival	• 139
s., long term	• 459
Suture	
s. line	• 427
s., Gore-Tex	• 825
Suturing	
s., galea	• 427
Symmetrical	• 341
Syndrome	
s. of inappropriate antidiuretic hormone (SIADH)	• 85
s., Marfan	• 847

System
 s., frameless navigation • 33
 s., micro-pressure-suction-irrigation • 225

[T]

TCD • 437
 Technique, mesh and glue • 1097
 Telangiectasia, capillary • 483
 Tests, neuropsychological • 41
 Therapy
 t., biological • 9
 t., dendritic cell based • 9
 t., gene • 9, 111, 787
 t., immunological • 9, 1071
 t., interventional thrombolytic • 617
 t., occlusion • 723
 t., radiation • 139
 Third ventricle • 673
 Three dimensional CT angiography (3D-CTA)
 • 617, 1091
 Thrombosis • 723
 t., cerebral cortical venous • 469
 t., sinus • 563
 Titanium miniplate • 525
 Tomography, computed • 921
 Tonsillomedullary segment • 1013
 Tracheostomy, percutaneous dilational • 133
 Transcondylar approach • 633
 Transfix • 1019
 Transient ischemic attack • 1043
 Transnasal surgery • 225, 699
 Transpetrosal approach, anterior • 407
 Transplantation, neural • 787
 Transsphenoidal surgery • 625, 667, 699
 Transverse sigmoid sinus • 1133
 Trauma • 889, 1031
 Traumatic
 t. cerebral aneurysm • 583
 t. dissecting aneurysm • 577
 t. SAH • 583
 Treatment • 95, 605
 t., endovascular • 147, 757
 t., surgical • 347
 Trigeminal
 t. dysfunction • 233
 t. neuralgia • 1019
 t. neurinoma • 407
 Tuberculoma, intracranial • 837

Tuberculous meningitis • 751
 Tuberos sclerososis • 550
 Tumor
 t., brain • 437
 t., calvarial • 347
 t., dysembryoplastic neuroepithelial • 541
 t., giant cell • 667
 t., intrasphenoidal • 1007
 t., malignant • 505
 t., metastatic brain • 89, 359
 t., specific antigen • 1071
 t., spinal cord • 533
 t., yolk-sac • 269

[U]

Unruptured aneurysm • 517, 831

[V]

4th ventricular hemorrhage • 1013
 Vacuolated meningioma • 569
 Vascular
 v. anomaly • 341
 v. biology • 111
 v. compression neuropathy • 189
 v. reconstruction • 211
 v. structure • 431
 Vasospasm • 831, 941
 v., cerebral • 1031
 Vein
 v., deep middle cerebral • 1091
 v., superficial sylvian • 1091
 Venous angioma • 233, 371
 Venous thrombosis, cerebral cortical • 469
 Ventricle, third • 673
 Ventriculoperitoneal shunt • 269
 Vertebral
 v. angiography • 1013
 v. artery • 19, 645, 927
 v. artery stenosis • 1079
 Visual field defect • 189
 Vitamin
 v. D • 119
 v. K₂ • 119
 Von Hippel-Lindau disease • 533

[W]

Wind-up phenomenon • 195

[X]

Xenon-enhanced CT • 717

[Y]

YAG laser • 459

Yolk-sac tumor • 269

[Z]

Zygomatic osteotomy • 407