Subject index of volume 1

Acetazolamide vasoreactivity
   Brain tissue perfusion monitoring using Sonopod for transcranial color duplex sonography, 34

Acute cerebral ischemia
   Early ultrasound imaging of carotid arteries in the acute ischemic cerebrovascular patients, 108
   Cerebral autoregulation in acute ischemic stroke, 194

Acute ischemic stroke
   Sonothrombolysis for treatment of acute ischemic stroke: Current evidence and new developments, 14
   Hemodynamic causes of deterioration in acute ischemic stroke, 177
   Transcranial Doppler in acute stroke management - A “real-time” bed-side guide to reperfusion and collateral flow, 185
   Evaluation of very early recanalization after tPA administration monitoring by transcranial color-coded sonography, 331

Acute stroke
   Imaging of plaque perfusion using contrast-enhanced ultrasound - Clinical significance, 44

Acute stroke care
   “A horse, a horse, my kingdom for a horse” - Saddle thrombosis of carotid bifurcation in acute stroke, 435

Acute stroke treatment
   Mechanical recanalization in acute stroke treatment, 54
   Alternating flow
   Pitfall of vertebral artery insonation: Bidirectional flow without subclavian artery pathology, 449

Angiogenesis
   Imaging of plaque perfusion using contrast-enhanced ultrasound - Clinical significance, 44

Angioplasty
   Predictors of carotid artery in-stent restenosis, 122

Angiography
   Endovascular sono-lysis using EKOS system Volume flow rate, 203
   Volume flow rate
   Endovascular sono-lysis using EKOS system Volume flow rate, 203

Ankle
   An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427
   Ankle-brachial index
   Optimized prevention of stroke: What is the role of ultrasound?, 100

Aortitis
   Diagnosis and management of Takayasu arteritis, 255

Arterial occlusion
   Endovascular sono-lysis using EKOS system in acute stroke patients with a main cerebral artery occlusion - A pilot study, 65

Arterial stiffness
   Breath holding index and arterial stiffness in evaluation of stroke risk in diabetic patients, 156

Arterial wall stiffness
   Arterial wall dynamics, 146

Arteriovenous malformation
   Transcranial color-coded duplex ultrasonography in routine cerebrovascular diagnostics, 325
   Transient brainstem ischemia and dural arteriovenous malformation, 465

Arteritis
   Diagnosis and management of Takayasu arteritis, 255

Artery
   Exploration of a zero-tolerance regime on cerebral embolism in asymptomatic carotid artery disease, 218

Association
   Are impaired endothelial function in the posterior cerebral circulation and intact endothelial function in the anterior cerebral and systemic circulation associated with migraine: A post hoc study, 297

Asymptomatic
   Medical management of asymptomatic carotid stenosis, 116
   Moyamoya like arteriopathy: Neurosonological suspicion and prognosis in adult asymptomatic patients, 257

Asymptomatic carotid stenosis
   How to treat an asymptomatic carotid stenosis? The view of the neurologist, 112

Asymptomatic hemorrhage
   My worst case with sonothrombolysis, 462

Atherosclerosis
   Symptomatic intracranial stenosis: A university hospital-based ultrasound study, 211

Atherosclerotic plaques
   Plaque angiogenesis identification with Contrast Enhanced Carotid Ultrasoundography: Statement of the Consensus after the 16th ESNCH Meeting - Munich, 20-23 May 2011, 51

Atrial fibrillation
   The contribution of microembolic signals (MES) detection in cardioembolic stroke, 214

Basal ganglia
   Transcranial sonography of the cerebral parenchyma: Update on clinically relevant applications, 334

Transcranial sonography
   Transcranial sonography in psychiatric diseases, 357

Bidirectional flow
   Pitfall of vertebral artery insonation: Bidirectional flow without subclavian artery pathology, 449

Bifurcation
   In vivo wall shear stress patterns in carotid bifurcations assessed by 4D MRI, 137

Biopsy
   Ultrasound fusion imaging, 80

Blindness
   The retrolubar spot sign in sudden blindness - Sufficient to rule out vasculitis?, 408

Blood-brain barrier (BBB)
   Advances in neurosonology - Brain perfusion, sonothrombolysis and CNS drug delivery, 5

Blood flow velocity
   The long-term effects of hypobaric and hyperbaric conditions on brain hemodynamics: A transcranial Doppler ultrasonography of blood flow velocity of middle cerebral and basilar arteries in pilots and divers, 316

B-mode
   Arterial wall dynamics, 146

http://dx.doi.org/10.1016/S2211-968X(12)00134-9
Brain activation studies
Adaptation of cerebral pressure-velocity hemodynamic changes of neurovascular coupling to orthostatic challenge, 290

Brain death
Oscillating transcranial Doppler patterns of brain death associated with therapeutic maneuvers, 321
The role of color duplex sonography in the brain death diagnostics, 362
Ultrasoundography of the optic nerve sheath in brain death, 414

Brain hemodynamic
The long-term effects of hypobaric and hyperbaric conditions on brain hemodynamic: A Transcranial Doppler ultrasoundography of blood flow velocity of middle cerebral and basilar arteries in pilots and divers, 316

Brain perfusion
Update on ultrasound brain perfusion imaging, 30

Brain tissue perfusion
Brain tissue perfusion monitoring using Sonopod for transcranial color duplex sonography, 34

Brainstem raphé
Transcranial sonography in psychiatric diseases, 357

Brasilian Guideline
Role of TCD in sickle cell disease: A review, 265
Breath holding index
Breath holding index and arterial stiffness in evaluation of stroke risk in diabetic patients, 156

Calf
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427

Cardioembolic stroke
The contribution of microembolic signals (MES) detection in cardioembolic stroke, 214

Carotid
Exploration of a zero-tolerance regime on cerebral embolism in symptomatic carotid artery disease, 218

Carotid arteries imaging
Three-dimensional imaging of carotid arteries: Advantages and pitfalls of ultrasound investigations, 82

Carotid artery
In vivo wall shear stress patterns in carotid bifurcations assessed by 4D MRI, 137
Carotid intima-media thickness (cIMT) and plaque from risk assessment and clinical use to genetic discoveries, 139
Intravascular papillary endothelial hyperplasia at the origin of internal carotid artery: A rare cause of stroke, 440

Carotid artery models
How local hemodynamics at the carotid bifurcation influence the development of carotid plaques, 132

Carotid artery stenosis
Plaque angiogenesis identification with Contrast Enhanced Carotid Ultrasoundography: Statement of the Consensus after the 16th ESNCH Meeting - Munich, 20-23 May 2011, 51
Predictors of carotid artery in-stent restenosis, 122

Carotid atherosclerosis
Carotid atherosclerosis: Socio-demographic issues, the hidden dimensions, 167

Carotid Doppler
Cerebral blood flow in the chronic heart failure patients, 304

Carotid endarterectomy
How to treat an asymptomatic carotid stenosis? The view of the neurologist, 112
When to perform transcranial Doppler to predict cerebral hyperperfusion after carotid endarterectomy?, 119

Carotid IMT/cIMT
Carotid intima-media thickness (cIMT) and plaque from risk assessment and clinical use to genetic discoveries, 139
The association of carotid intima-media thickness (cIMT) and stroke: A cross sectional study, 164

Carotid stenosis
Imaging of plaque perfusion using contrast-enhanced ultrasound - Clinical significance, 44
The role of extracranial ultrasound in the prevention of stroke based on the new guidelines, 94
Optimized prevention of stroke: What is the role of ultrasound?, 100

Measuring the degree of internal carotid artery stenosis, 104
Three-dimensional imaging of carotid arteries: Advantages and pitfalls of ultrasound investigations, 82
Medical management of asymptomatic carotid stenosis, 116

Carotid stenting
How to treat an asymptomatic carotid stenosis? The view of the neurologist, 112
Post-carotid stent ultrasound provides critical data to avoid rare but serious complications, 129

Carotid surgery
Early ultrasound imaging of carotid arteries in the acute ischemic cerebrovascular patients, 108

Carotid ultrasound
Predictors of carotid artery in-stent restenosis, 122
Post-carotid stent ultrasound provides critical data to avoid rare but serious complications, 129

CBF velocity during normal sleep and sleep disorders
Cerebral blood flow velocity in sleep, 275

CCSVI
Fact or fiction: Chronic cerebro-spinal insufficiency, 371
Italian multicenter study on venous hemodynamics in multiple sclerosis: Advanced Sonological Protocol, 399
Central retinal artery occlusion
The retrobulbar spot sign in sudden blindness - Sufficient to rule out vasculitis?, 408

Cerebral autoregulation
Cerebral autoregulation in acute ischemic stroke, 194
Asymmetry of cerebral autoregulation does not correspond to asymmetry of cerebrovascular pressure reactivity, 285
Adaptation of cerebral pressure-velocity hemodynamic changes of neurovascular coupling to orthostatic challenge, 290
Informativity of pulsatility index and cerebral autoregulation in hydrocephalus, 311

Cerebral blood arrest
The role of color duplex sonography in the brain death diagnostics, 362

Cerebral blood flow
Cerebral blood flow in the chronic heart failure patients, 304
Asymmetry of cerebral autoregulation does not correspond to asymmetry of cerebrovascular pressure reactivity, 285
Cerebral blood flow velocity
Posttraumatic vasospasm and intracranial hypertension after wartime traumatic brain injury, 261
Cerebral electrical activity
Cerebral blood flow velocity in sleep, 275

Cerebral hemodynamics
Adaptation of cerebral pressure-velocity hemodynamic changes of neurovascular coupling to orthostatic challenge, 290
Cerebral hyperperfusion syndrome
When to perform transcranial Doppler to predict cerebral hyperperfusion after carotid endarterectomy?, 119

Cerebral perfusion pressure
Asymmetry of cerebral autoregulation does not correspond to asymmetry of cerebrovascular pressure reactivity, 285

Cerebral veins
Virtual Navigator study: Subset of preliminary data about cerebral venous circulation, 385
Ipsilateral evaluation of the transverse sinus: Transcranial color-coded sonography approach in comparison with magnetic resonance venography, 390

Cerebral venous hemodynamics
Possibilities of transcranial color-coded sonography in pathology of deep brain veins in children, 353
Italian multicenter study on venous hemodynamics in multiple sclerosis: Advanced Sonological Protocol, 399

Cerebrospinal fluid
Informativity of pulsatility index and cerebral autoregulation in hydrocephalus, 311

Cerebrovascular reactivity
Asymmetry of cerebral autoregulation does not correspond to asymmetry of cerebrovascular pressure reactivity, 285

Cervical artery dissection
Cerebrovascular reactivity
Asymmetry of cerebral autoregulation does not correspond to asymmetry of cerebrovascular pressure reactivity, 285

Cervical artery stenosis
Medical management of asymptomatic carotid stenosis, 116

Cervical Doppler
Oscillating transcranial Doppler patterns of brain death associated with therapeutic maneuvers, 321
The role of color duplex sonography in the brain death diagnostics, 362

Cervical hemodynamic
The long-term effects of hypobaric and hyperbaric conditions on brain hemodynamic: A Transcranial Doppler ultrasoundography of blood flow velocity of middle cerebral and basilar arteries in pilots and divers, 316

Cervical veins
Virtual Navigator study: Subset of preliminary data about cerebral venous circulation, 385
Deep brain stimulation
Intra- and post-operative monitoring of deep brain implants using transcranial ultrasound, 344

Degree of stenosis
Measuring the degree of internal carotid artery stenosis, 104

Diabetes mellitus
Breath holding index and arterial stiffness in evaluation of stroke risk in diabetic patients, 156

Diagnostic ultrasound
The retrobulbar spot sign in sudden blindness - Sufficient to rule out vasculitis?, 408

Dissection
Diagnosis of non-atherosclerotic carotid disease, 244
Transcranial and cervical duplex: A feasible approach to the diagnosis of pulsatile tinnitus, 446

Distal myopathies
Four-dimensional ultrasound calf muscle imaging in patients with genetic types of distal myopathy, 431

Distensibility
Arterial wall dynamics, 146

Doppler method
Volume flow rate, 203
Doppler ultrasound
Measuring the degree of internal carotid artery stenosis, 104

Doppler ultrasound imaging
Ultrasound findings of the optic nerve and its arterial venous system in multiple sclerosis patients with and without optic neuritis vs. healthy controls, 381

Drug delivery
Advances in neurosonology - Brain perfusion, sonothrombolysis and CNS drug delivery, 5

Duplex
The association of carotid intima-media thickness (cIMT) and stroke: A cross sectional study, 164
Transcranial and cervical duplex: A feasible approach to the diagnosis of pulsatile tinnitus, 446

Duplex scanning
Intima-media thickness of the carotid artery in OSAS patients, 160

Duplex sonography
Measuring the degree of internal carotid artery stenosis, 104
Ultrasound examination techniques of extra- and intracranial veins, 366
Pitfall of vertebral artery insonation: Bidirectional flow without subclavian artery pathology, 449

Duplex ultrasonography
Vertebral artery hypoplasia and the posterior circulation stroke, 198

Dural sinus
Ultrasound examination techniques of extra- and intracranial veins, 366

Dysfunction
Are impaired endothelial function in the posterior cerebral circulation and intact endothelial function in the anterior cerebral and systemic circulation associated with migraine: A post hoc study, 297

Early neurological deterioration
Hemodynamic causes of deterioration in acute ischemic stroke, 177

Echocardiography
Italian patent foramen ovale survey (I.P.O.S.): Early results, 236

Egyptian population
Carotid atherosclerosis: Socio-demographic issues, the hidden dimensions, 167

Elbow
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427

Electrode position control
Transcranial sonography of the cerebral parenchyma: Update on clinically relevant applications, 334

Intra- and post-operative monitoring of deep brain implants using transcranial ultrasound, 344

Emboli
Late septic encephalopathy and septic shock are not associated with ongoing cerebral embolism, 224

Exploration of a zero-tolerance regime on cerebral embolism in symptomatic carotid artery disease, 218
Embolic detection
Microbubble signal properties from PFO tests using transcranial Doppler ultrasound, 232
Endovascular treatment
Late septic encephalopathy and septic shock are not associated with long-term cerebral embolism, 224
Endarterectomy
“A horse, a horse, my kingdom for a horse” - Saddle thrombosis of carotid bifurcation in acute stroke, 435
Endothelium
Are impaired endothelial function in the posterior cerebral circulation and intact endothelial function in the anterior cerebral and systemic circulation associated with migraine: A post hoc study, 297
Endovascular stroke treatment
Mechanical recanalization in acute stroke treatment, 54
Entrapment neuropathy
Ultrasoundography of peripheral nerves - Clinical significance, 422
Extracranial carotid arteries tortuosity and kinking
Three-dimensional imaging of carotid arteries: Advantages and pitfalls of ultrasound investigations, 82
Extracranial ultrasound examination
Intravascular papillary endothelial hyperplasia at the origin of internal carotid artery: A rare cause of stroke, 440
Fistula
Transcranial and cervical duplex: A feasible approach to the diagnosis of pulsatile tinnitus, 446
4D flow MRI
In vivo wall shear stress patterns in carotid bifurcations assessed by 4D MRI, 137
Flow-mediated dilatation
Are impaired endothelial function in the posterior cerebral circulation and intact endothelial function in the anterior cerebral and systemic circulation associated with migraine: A post hoc study, 297
Flow visualization
How local hemodynamics at the carotid bifurcation influence the development of carotid plaques, 132
Flow-sensitive MRI
In vivo wall shear stress patterns in carotid bifurcations assessed by 4D MRI, 137
Foot
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427
Functional TCD
Withdraw of statin improves cerebrovascular reserve in radiation vasculopathy, 309
Fusion
Ultrasound fusion imaging, 80
Fusion imaging
Virtual Navigator study: Subset of preliminary data about cerebral venous circulation, 385
Gaseous emboli
Microbubble signal properties from PFO tests using transcranial Doppler ultrasound, 232
Guideline
The role of extracranial ultrasound in the prevention of stroke based on the new guidelines, 94
Hand
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427
Headache
Migraine-like presentation of vertebral artery dissection after cervical manipulative therapy, 452
Heliox
Effect of helium on cerebral blood flow: A n = 1 trial in a healthy young person, 301
Helium
Effect of helium on cerebral blood flow: A n = 1 trial in a healthy young person, 301
Hemodynamic
Hemodynamic causes of deterioration in acute ischemic stroke, 177
Hereditary hemorrhagic telangiectasia
Transient brainstem ischemia and dural arteriovenous malformation, 465
HIBAMZ
Four-dimensional ultrasound calf muscle imaging in patients with genetic types of distal myopathy, 431
High-resolution ultrasound
“A horse, a horse, my kingdom for a horse” - Saddle thrombosis of carotid bifurcation in acute stroke, 435
Hippo
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427
Hydrocephalus
Informativity of pulsatility index and cerebral autoregulation in hydrocephalus, 311
Hyperbaric condition
The long-term effects of hypobaric and hyperbaric conditions on brain hemodynamic: A transcranial Doppler ultrasonography of blood flow velocity of middle cerebral and basilar arteries in pilots and divers, 316
Hypoxic condition
The long-term effects of hypobaric and hyperbaric conditions on brain hemodynamic: A transcranial Doppler ultrasonography of blood flow velocity of middle cerebral and basilar arteries in pilots and divers, 316
Hypoplasia of cerebral venous sinuses
Possibilities of transcranial color-coded sonography in pathology of deep brain veins in children, 353
Idiopathic intracranial hypertension
B-mode sonography of the optic nerve in neurological disorders with altered intracranial pressure, 404
In vitro ultrasonography
Comparative in vivo and in vitro postmortem ultrasound assessment of intima-media thickness with additional histological analysis in human carotid arteries, 170
In vivo ultrasonography
Comparative in vivo and in vitro postmortem ultrasound assessment of intima-media thickness with additional histological analysis in human carotid arteries, 170
Insonation rate
Ipsilateral evaluation of the transverse sinus: Transcranial color-coded sonography approach in comparison with magnetic resonance venography, 390
Internal carotid vein
Chronic cerebrospinal venous insufficiency in patients with multiple sclerosis: A case-control study from Iran, 375
Internal jugular vein
Ultrasound examination techniques of extra- and intracranial veins, 366
Chronic cerebrospinal venous insufficiency in patients with multiple sclerosis: A case-control study from Iran, 375
Italian multicenter study on venous hemodynamics in multiple sclerosis: Advanced Sonological Protocol, 399
Intima-media thickness (IMT)
Arterial wall dynamics, 146
Morphological, hemodynamic and stiffness changes in arteries of young smokers, 152
Intima-media thickness of the carotid artery in OSAS patients, 160
Comparative in vivo and in vitro postmortem ultrasound assessment of intima-media thickness with additional histological analysis in human carotid arteries, 170
Intracranial atherosclerosis
Intra- and extracranial stenoses in TIA - Findings from the Aarhus TIA-study: A prospective population-based study, 207
Intracranial pressure
Posttraumatic vasospasm and intracranial hypertension after wartime traumatic brain injury, 261
Informativity of pulsatility index and cerebral autoregulation in hydrocephalus, 311
Ultrasoundography of the optic nerve sheath in brain death, 414
Intracranial pressure (ICP)
Oscillating transcranial Doppler patterns of brain death associated with therapeutic maneuvers, 321
Intracranial stenosis
Symptomatic intracranial stenosis: A university hospital-based ultrasound study, 211
Moyamoya like arteriopathy: Neurosonological suspicion and prognosis in adult asymptomatic patients, 257
Intracranial veins
Ultrasound examination techniques of extra- and intracranial veins, 366
Intraoperative
Intraoperative color-coded duplex sonography of the superior sagittal sinus in parasagittal meningiomas, 395
Intravascular papillary endothelial hyperplasia (IPEH)
Intravascular papillary endothelial hyperplasia at the origin of internal carotid artery: A rare cause of stroke, 440
Intravenous thrombolysis
The impact of recanalization on ischemic stroke outcome: A clinical case presentation, 455
Ischemic stroke
Update on ultrasound brain perfusion imaging, 30
Relationship between refill-kinetics of ultrasound perfusion imaging and vascular obstruction in acute middle cerebral artery stroke, 39
Symptomatic intracranial stenosis: A university hospital-based ultrasound study, 211
The impact of recanalization on ischemic stroke outcome: A clinical case presentation, 455
Knee
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427
Laser Doppler flowmetry
Clinical application of laser Doppler flowmetry in neurology, 89
Left ventricular assist devices
The contribution of microembolic signals (MES) detection in cardioembolic stroke, 214
Left ventricle ejection fraction
Cerebral blood flow in the chronic heart failure patients, 304
Lumbosacral region
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427
Macular degeneration
Four-dimensional ultrasound imaging in neuro-ophthalmology, 86
Magnetic resonance angiography (MRA)
Vertebral artery hypoplasia and the posterior circulation stroke, 198
Evaluation of very early recanalization after tPA administration monitoring by transcranial color-coded sonography, 331
Magnetic resonance imagine (MRI)
Ultrasound fusion imaging, 80
Magnetic resonance venography
Intraoperative color-coded duplex sonography of the superior sagittal sinus in parasagittal meningiomas, 395
Management
Diagnosis and management of Takayasu arteritis, 255
Mechanical recanalization
Mechanical recanalization in acute stroke treatment, 54
Mechanical thrombectomy
Mechanical recanalization in acute stroke treatment, 54
Medical treatment
How to treat an asymptomatic carotid stenosis? The view of the neurologist, 112
Medical management of asymptomatic carotid stenosis, 116
Microbubbles
Advances in neurosonology - Brain perfusion, sonothrombolysis and CNS drug delivery, 5
Sonothrombolysis: Current status, 11
Safety evaluation of superheated perfluorocarbon nanodroplets for novel phase change type neurological therapeutic agents, 25
Relationship between refill-kinetics of ultrasound perfusion imaging and vascular obstruction in acute middle cerebral artery stroke, 39
Microembolic signals
Transcranial Doppler in acute stroke management - A "real-time" bedside guide to reperfusion and collateral flow, 185
The contribution of microembolic signals (MES) detection in cardioembolic stroke, 214
Middle cerebral artery (MCA)
Moyamoya like arteriopathy: Neurosonological suspicion and prognosis in adult asymptomatic patients, 257
Transcranial color-coded duplex ultrasonography in routine cerebrovascular diagnostics, 325
Migraine
Are impaired endothelial function in the posterior cerebral circulation and intact endothelial function in the anterior cerebral and systemic circulation associated with migraine: A post hoc study, 297
Migraine-like presentation of vertebral artery dissection after cervical manipulative therapy, 452
M-mode ultrasound
Arterial wall dynamics, 146
Movement disorder
Transcranial ultrasound in adults and children with movement disorders, 349
Moyamoya
Moyamoya like arteriopathy: Neurosonological suspicion and prognosis in adult asymptomatic patients, 257
Multiple sclerosis (MS)
Fact or fiction: Chronic cerebro-spinal insufficiency, 371
Chronic cerebrospinal venous insufficiency in patients with multiple sclerosis: A case-control study from Iran, 375
Italian multicenter study on venous hemodynamics in multiple sclerosis: Advanced Sonological Protocol, 399
Musculoskeletal
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427
Myosononology
Four-dimensional ultrasound calf muscle imaging in patients with genetic types of distal myopathy, 431
Nanodroplets
Safety evaluation of superheated perfluorocarbon nanodroplets for novel phase change type neurological therapeutic agents, 25
Navigated brain stimulation
Functional guidance in intracranial tumor surgery, 59
Nerve
Ultrasonography of the peripheral nervous system, 417
Nerve sheath tumor
Ultrasonography of peripheral nerves - Clinical significance, 422
Neurovascular coupling
Adaptation of cerebral pressure-velocity hemodynamic changes of neurovascular coupling to orthostatic challenge, 290
Non-atherosclerotic
Diagnosis of non-atherosclerotic carotid disease, 244
Obstructive sleep apnea
Intima-media thickness of the carotid artery in OSAS patients, 160
Occlusion
Transcranial color-coded duplex ultrasonography in routine cerebrovascular diagnostics, 325
Ophthalmic venous flow
Ultrasound findings of the optic nerve and its arterial venous system in multiple sclerosis patients with and without optic neuritis vs. healthy controls, 381
Optic disc swelling
Four-dimensional ultrasound imaging in neuro-ophthalmology, 86
Optic Nerve atrophy
Ultrasound findings of the optic nerve and its arterial venous system in multiple sclerosis patients with and without optic neuritis vs. healthy controls, 381
Optic nerve edema
Four-dimensional ultrasound imaging in neuro-ophthalmology, 86
Optic nerve sheath diameter
Ultrasonography of the optic nerve sheath in brain death, 414
B-mode sonography of the optic nerve in neurological disorders
with altered intracranial pressure, 404
Optic nerve sonography
B-mode sonography of the optic nerve in neurological disorders
with altered intracranial pressure, 404
Optic neuritis
Ultrasound findings of the optic nerve and its arterial venous
system in multiple sclerosis patients with and without optic
neuritis vs. healthy controls, 381
Oscillating flow
Oscillating transcranial Doppler patterns of brain death
associated with therapeutic maneuvers, 321
Perfusion
How local hemodynamics at the carotid bifurcation influence the
development of carotid plaques, 132
Patent foramen ovale
Patent foramen ovale, 228
Patent foramen ovale survey (I.P.O.S.): Early results, 236
An increased frequency of right-to-left shunt in patients with
chronic hyperventilation syndrome, 241
Peak systolic velocity
Measuring the degree of internal carotid artery stenosis, 104
Perfluorocarbon
Safety evaluation of superheated perfluorocarbon nanodroplets
for novel phase change type neurological therapeutic agents, 25
Perfusion
Advances in neurosonology - Brain perfusion, sonothrombolysis
and CNS drug delivery, 5
Pitfall
Pitfall of vertebral artery insonation: Bidirectional flow without
subclavian artery pathology, 449
Plaque
Carotid intima-media thickness (cIMT) and plaque from risk
assessment and clinical use to genetic discoveries, 139
Polynuropathy
Ultrasanography of the peripheral nervous system, 417
Ultrasonography of peripheral nerves - Clinical significance, 422
Posterior circulation stroke
Vertebral artery hypoplasia and the posterior circulation stroke, 198
Post-operative monitoring
Intra- and post-operative monitoring of deep brain implants
using transcranial ultrasound, 344
Power modulation imaging
Brain tissue perfusion monitoring using Sonopod for transcranial
color duplex sonography, 34
Preoperative mapping
Functional guidance in intracranial tumor surgery, 59
Prevalence
Intra- and extracranial stenoses in TIA - Findings from the Aarhus
TIA-study: A prospective population-based study, 207
Prevention
The role of extracranial ultrasound in the prevention of stroke
based on the new guidelines, 94
Primary prevention
Medical management of asymptomatic carotid stenosis, 116
Process optimization
Act on Stroke - Optimization of clinical processes and workflow
for stroke diagnosis and treatment, 73
Psychiatric diseases
Transcranial sonography in psychiatric diseases, 357
Pulsatile
Transcranial and cervical duplex: A feasible approach to the
diagnosis of pulsatile tinnitus, 446
Quality of care
Act on Stroke - Optimization of clinical processes and workflow
for stroke diagnosis and treatment, 73
Quantitative flow measurement system
Volume flow rate, 203
Radiation vasculopathy
Withdraw of statin improves cerebrovascular reserve in radiation
vasculopathy, 309
Recanalization
Current trends in sonothrombolysis for acute ischemic stroke, 21
Endovascular sono-lys is using EKOS system in acute stroke
patients with a main cerebral artery occlusion - A pilot study, 65
Transcranial Doppler in acute stroke management - A “real-
time” bed-side guide to reperfusion and collateral flow, 185
Evaluation of very early recanalization after tPA administration
monitoring by transcranial color-coded sonography, 331
The impact of recanalization on ischemic stroke outcome: A
case report, 455
Refill kinetics
Relationship between refill-kinetics of ultrasound perfusion
imaging and vascular obstruction in acute middle cerebral artery
stroke, 39
Reocclusion
Hemodynamic causes of deterioration in acute ischemic stroke, 177
Restenosis
Predictors of carotid artery in-stent restenosis, 122
Retinal detachment
Four-dimensional ultrasound imaging in neuro-ophthalmology,
86
Reversible cerebral vascoconstriction syndrome
Reversible cerebral vascoconstriction syndrome after
preeclampsia, 443
Right to left shunt
Patient foramen ovale, 228
An increased frequency of right-to-left shunt in patients with
chronic hyperventilation syndrome, 241
Risk factors
Carotid intima-media thickness (cIMT) and plaque from risk
assessment and clinical use to genetic discoveries, 139
Rolandic region
Functional guidance in intracranial tumor surgery, 59
rt-PA
Sonothrombolysis: Current status, 11
Saddle thrombosis
"A horse, a horse, my kingdom for a horse" - Saddle thrombosis
of carotid bifurcation in acute stroke, 435
Safety
Safety evaluation of superheated perfluorocarbon nanodroplets
for novel phase change type neurological therapeutic agents, 25
Second harmonic imaging
Brain tissue perfusion monitoring using Sonopod for transcranial
color duplex sonography, 34
Semantic aphasia
Semantic aphasia in a sonothrombolysed patient. A treatment
without use of rt-PA, 459
Sepsis
Late septic encephalopathy and septic shock are not associated
with ongoing cerebral embolism, 224
Septic
Late septic encephalopathy and septic shock are not associated
with ongoing cerebral embolism, 224
Shock
Late septic encephalopathy and septic shock are not associated with ongoing cerebral embolism, 224

Shoulder
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427

Sickle cell disease
Role of TCD in sickle cell disease: A review, 265
Transcranial Doppler sonography in children with sickle cell disease and silent ischemic lesions, 269
Intellectual impairment and TCD evaluation in children with sickle cell disease and silent stroke, 272

Silent strokes
Transcranial Doppler sonography in children with sickle cell disease and silent ischemic lesions, 269
Intellectual impairment and TCD evaluation in children with sickle cell disease and silent stroke, 272

Sinus cavernous
Possibilities of transcranial color-coded sonography in pathology of deep brain veins in children, 353

Sleep apnea syndrome
Cerebral blood flow velocity in sleep, 275

Smoking
Morphological, hemodynamic and stiffness changes in arteries of young smokers, 152

Snap freezing
Comparative in vivo and in vitro postmortem ultrasound assessment of intima-media thickness with additional histological analysis in human carotid arteries, 170

Socio-demographic
Carotid atherosclerosis: Socio-demographic issues, the hidden dimensions, 167

Sonography
Intraoperative color-coded duplex sonography of the superior sagittal sinus in parasagittal meningiomas, 395
Ultrasoundography of the peripheral nervous system, 417

Sonothrombolysis
Endovascular sono-lysis using EKOS system in acute stroke patients with a main cerebral artery occlusion - A pilot study, 65

Stenosis
Transcranial color-coded duplex ultrasonography in routine cerebrovascular diagnostics, 325

Stent/Stents
Predictors of carotid artery in-stent restenosis, 122
How local hemodynamics at the carotid bifurcation influence the development of carotid plaques, 132

Stiffness
Morphological, hemodynamic and stiffness changes in arteries of young smokers, 152

Stroke
Advances in neurosonology - Brain perfusion, sonothrombolysis and CNS drug delivery, 5
Current trends in sonothrombolysis for acute ischemic stroke, 21
Endovascular sono-lysis using EKOS system in acute stroke patients with a main cerebral artery occlusion - A pilot study, 65
Act on Stroke - Optimization of clinical processes and workflow for stroke diagnosis and treatment, 73

Telestroke - How does that work?, 77
The role of extracranial ultrasound in the prevention of stroke based on the new guidelines, 94
Predictors of carotid artery in-stent restenosis, 122
Post-carotid stent ultrasound provides critical data to avoid rare but serious complications, 129
The association of carotid intima-media thickness (cIMT) and stroke: A cross sectional study, 164
Exploration of a zero-tolerance regime on cerebral embolism in symptomatic carotid artery disease, 218
Italian patent foramen ovale survey (I.P.O.S.): Early results, 236
Diagnosis of non-atherosclerotic carotid disease, 244
Role of TCD in sickle cell disease: A review, 265
Transcranial color-coded duplex ultrasonography in routine cerebrovascular diagnostics, 325
Transcranial sonography of the cerebral parenchyma: Update on clinically relevant applications, 334
The retrobulbar spot sign in sudden blindness - Sufficient to rule out vasculitis?, 408

Stroke prevention
Optimized prevention of stroke: What is the role of ultrasound?, 100
How to treat an asymptomatic carotid stenosis? The view of the neurologist, 112

Subclavian steal syndrome
Pitfall of vertebral artery insonation: Bidirectional flow without subclavian artery pathology, 449

Substantia nigra
Transcranial sonography of the cerebral parenchyma: Update on clinically relevant applications, 334

Superior sagittal sinus
Intraoperative color-coded duplex sonography of the superior sagittal sinus in parasagittal meningiomas, 395
Surrogate markers
Carotid intima-media thickness (cIMT) and plaque from risk assessment and clinical use to genetic discoveries, 139
Survey
Italian patent foramen ovale survey (I.P.O.S.): Early results, 236

Takayasu
Diagnosis and management of Takayasu arteritis, 255

Telemedicine
Telestroke - How does that work?, 77

TEMPIs network
Telestroke - How does that work?, 77

Tetania
An increased frequency of right-to-left shunt in patients with chronic hyperventilation syndrome, 241

Therapy
Advances in neurosonology - Brain perfusion, sonothrombolysis and CNS drug delivery, 5

Thrombolysis
Sonothrombolysis for treatment of acute ischemic stroke: Current evidence and new developments, 14

Thigh
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427
Current trends in sonothrombolysis for acute ischemic stroke, 21

TIA
Exploration of a zero-tolerance regime on cerebral embolism in symptomatic carotid artery disease, 218
Timing of carotid surgery
Early ultrasound imaging of carotid arteries in the acute ischemic cerebrovascular patients, 108
Tinnitus
Transcranial and cervical duplex: A feasible approach to the diagnosis of pulsatile tinnitus, 446
Tissue plasminogen activator
Evaluation of very early recanalization after tPA administration monitoring by transcranial color-coded sonography, 331
TMD
Four-dimensional ultrasonic calf muscle imaging in patients with genetic types of distal myopathy, 431
Transcranial
Moyamoya like arteriopathy: Neurosonological suspicion and prognosis in adult asymptomatic patients, 257
Virtual Navigator study: Subset of preliminary data about cerebral venous circulation, 385
Ipsilateral evaluation of the transverse sinus: Transcranial color-coded sonography approach in comparison with magnetic resonance venography, 390
Italian multicenter study on venous hemodynamics in multiple sclerosis: Advanced Sonological Protocol, 399
Transcranial color-coded duplex ultrasonography (TCCS)
Brain tissue perfusion monitoring using Sonopod for transcranial color duplex sonography, 34
Moyamoya like arteriopathy: Neurosonological suspicion and prognosis in adult asymptomatic patients, 257
Transcranial color-coded duplex ultrasonography in routine cerebrovascular diagnostics, 325
Possibilities of transcranial color-coded sonography in pathology of deep brain veins in children, 353
Virtual Navigator study: Subset of preliminary data about cerebral venous circulation, 385
Ipsilateral evaluation of the transverse sinus: Transcranial color-coded sonography approach in comparison with magnetic resonance venography, 390
Reversible cerebral vasoconstriction syndrome after preeclampsia, 443
My worst case with sonothrombolysis, 462
Transient brainstem ischemia and dural arteriovenous malformation, 465
Transcranial Doppler sonography (TCD)
When to perform transcranial Doppler to predict cerebral hyperperfusion after carotid endarterectomy?, 119
Hemodynamic causes of deterioration in acute ischemic stroke, 177
Transcranial Doppler in acute stroke management - A "real-time" bed-side guide to reperfusion and collateral flow, 185
Cerebral autoregulation in acute ischemic stroke, 194
Intra- and extracranial stenoses in TIA - Findings from the Aarhus TIA-study: A prospective population-based study, 207
Exploration of a zero-tolerance regime on cerebral embolism in symptomatic carotid artery disease, 218
Pattern foramen ovale, 228
Late septic encephalopathy and septic shock are not associated with ongoing cerebral embolism, 224
Microbubble signal properties from PFO tests using transcranial Doppler ultrasound, 232
Italian patent foramen ovale survey (I.P.O.S.): Early results, 236
An increased frequency of right-to-left shunt in patients with chronic hyperventilation syndrome, 241
Diagnosis of non-atherosclerotic carotid disease, 244
Posttraumatic vasospasms and intracranial hypertension after wartime traumatic brain injury, 261
Role of TCD in sickle cell disease: A review, 265
Transcranial Doppler sonography in children with sickle cell disease and silent ischemic lesions, 269
Intellectual impairment and TCD evaluation in children with sickle cell disease and silent stroke, 272
Cerebral blood flow velocity in sleep, 275
Asymmetry of cerebral autoregulation does not correspond to asymmetry of cerebrovascular pressure reactivity, 285
Adaptation of cerebral pressure-velocity hemodynamic changes of neurovascular coupling to orthostatic challenge, 290
Are impaired endothelial function in the posterior cerebral circulation and intact endothelial function in the anterior cerebral and systemic circulation associated with migraine: A post hoc study, 297
Effect of helium on cerebral blood flow: A n = 1 trial in a healthy young person, 301
Informativity of pulsatility index and cerebral autoregulation in hydrocephalus, 311
The long-term effects of hypobaric and hyperbaric conditions on brain hemodynamics: A transcranial Doppler ultrasonography of blood flow velocity of middle cerebral and basilar arteries in pilots and divers, 316
Oscillating transcranial Doppler patterns of brain death associated with therapeutic maneuvers, 321
The role of color duplex sonography in the brain death diagnostics, 362
Transcranial and cervical duplex: A feasible approach to the diagnosis of pulsatile tinnitus, 446
Transcranial magnetic stimulation
Functional guidance in intracranial tumor surgery, 59
Transcranial sonography
Transcranial sonography
Transcranial sonography of the cerebral parenchyma: Update on clinically relevant applications, 334
Intra- and post-operative monitoring of deep brain implants using transcranial ultrasound, 344
Transcranial sonography in psychiatric diseases, 357
Transcranial ultrasound
Sonothrombolysis for treatment of acute ischemic stroke: Current evidence and new developments, 14
Evaluation of very early recanalization after tPA administration monitoring by transcranial color-coded sonography, 331
Transcranial ultrasound in adults and children with movement disorders, 349
Transducer holder (Sonopod)
Brain tissue perfusion monitoring using Sonopod for transcranial color duplex sonography, 34
Transesophageal echocardiography
Patent foramen ovale, 228
Transient global amnesia
Italian multicenter study on venous hemodynamics in multiple sclerosis: Advanced Sonological Protocol, 399
Transient ischemic attack
Intra- and extracranial stenoses in TIA - Findings from the Aarhus TIA-study: A prospective population-based study, 207
Transient brainstem ischemia and dural arteriovenous malformation, 465
Transverse sinus
Virtual Navigator study: Subset of preliminary data about cerebral venous circulation, 385
Ipsilateral evaluation of the transverse sinus: Transcranial color-coded sonography approach in comparison with magnetic resonance venography, 390
Oscillating transcranial Doppler patterns of brain death associated with therapeutic maneuvers, 321
Trauma
Ultrasoundography of the peripheral nervous system, 417
Traumatic brain injury
B-mode sonography of the optic nerve in neurological disorders with altered intracranial pressure, 404
Traumatic nerve lesion
Ultrasoundography of peripheral nerves - Clinical significance, 422
Tumor
Functional guidance in intracranial tumor surgery, 59
Ultrasoundography of the peripheral nervous system, 417
Ultrasoundography
Advances in neurosonology - Brain perfusion, sonothrombolysis and CNS drug delivery, 5
The role of extracranial ultrasound in the prevention of stroke based on the new guidelines, 94
Optimized prevention of stroke: What is the role of ultrasound?, 100
Early ultrasound imaging of carotid arteries in the acute ischemic cerebrovascular patients, 108
Carotid intima-media thickness (cIMT) and plaque from risk assessment and clinical use to genetic discoveries, 139
Vertebral artery hypoplasia and the posterior circulation stroke, 198
Ultrasound in spontaneous cervical artery dissection, 250
Diagnosis and management of Takayasu arteritis, 255
Transcranial ultrasound in adults and children with movement disorders, 349
Fact or fiction: Chronic cerebro-spinal insufficiency, 371
Ultrasongraphy of the optic nerve sheath in brain death, 414
Transcranial ultrasoundography of peripheral nerves - Clinical significance, 422
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427

3D ultrasound
Three-dimensional imaging of carotid arteries: Advantages and pitfalls of ultrasound investigations, 82
4D ultrasound imaging
Four-dimensional ultrasound imaging in neuro-ophthalmology, 86
Four-dimensional ultrasound calf muscle imaging in patients with genetic types of distal myopathy, 431
Ultrasound contrast agent
Update on ultrasound brain perfusion imaging, 30
Patent foramen ovale, 228
Ultrasound perfusion imaging
Relationship between refill-kinetics of ultrasound perfusion imaging and vascular obstruction in acute middle cerebral artery stroke, 39
Ultrasound-guided procedure
Intra- and post-operative monitoring of deep brain implants using transcranial ultrasound, 344
Unstable carotid plaques
Early ultrasound imaging of carotid arteries in the acute ischemic cerebrovascular patients, 108
Unstable plaque
Imaging of plaque perfusion using contrast-enhanced ultrasound - Clinical significance, 44

Vasculitis
The retrobulbar spot sign in sudden blindness - Sufficient to rule out vasculitis?, 408
Vasomotor reactivity
Withdraw of statin improves cerebrovascular reserve in radiation vasculopathy, 309
Vasospasm
Posttraumatic vasospasm and intracranial hypertension after wartime traumatic brain injury, 261
VCPDM
Four-dimensional ultrasound calf muscle imaging in patients with genetic types of distal myopathy, 431
Velocity measurement
How local hemodynamics at the carotid bifurcation influence the development of carotid plaques, 132
Vertebral artery
Pitfall of vertebral artery insonation: Bidirectional flow without subclavian artery pathology, 449
Vertebral artery dissection
Migraine-like presentation of vertebral artery dissection after cervical manipulative therapy, 452
Vertebral artery hypoplasia (VAH)
Vertebral artery hypoplasia and the posterior circulation stroke, 198
Virtual Navigator
Virtual Navigator study: Subset of preliminary data about cerebral venous circulation, 385
 Ipsilateral evaluation of the transverse sinus: Transcranial color-coded sonography approach in comparison with magnetic resonance venography, 390
Volume flow rate
Volume flow rate, 203
Wall shear stress
In vivo wall shear stress patterns in carotid bifurcations assessed by 4D MRI, 137
Wartime traumatic brain injury
Posttraumatic vasospasm and intracranial hypertension after wartime traumatic brain injury, 261
Wrist
An overview of musculoskeletal ultrasound - A thirteen years experience in Pakistan, 427