

Hannover International Neurosurgical Congress 2017
From Basics & Classics to Global & Innovative Solutions
Madjid Samii 80/40 Anniversary

June 17-19, 2017 – Hannover, Germany





Saturday, 17th of June 2017

Opening Session –
Main Hall
8:00 – 10:00

Break

Kurt Schürmann – Hall
**Session 1: Global
Neurosurgery & Special
Topics**
10:30 - 12:30

Peter Jannetta – Hall
Session 2: Sella Region
10:30 - 12:30 Lectures

Hanno Millesi – Hall
**Session 3: Visualization
& Technology Trends**
10:30 - 12:30 Lectures

Break

Kurt Schürmann – Hall
**Session 4:
Cerebrovascular**
13:30 - 15:30 Lectures

Peter Jannetta – Hall
Session 5: Pain
13:30 - 15:30 Lectures

Hanno Millesi – Hall
**Session 6: Epilepsy &
Special Topics**
13:30 - 15:30 Lectures

Break

Kurt Schürmann – Hall
**Session 7:
Cerebrovascular**
16:00 - 18:00 Lectures

Peter Jannetta – Hall
**Session 8: Vestibular
Schwannoma & Hearing
Restoration**
16:00 - 18:00 Lectures

Hanno Millesi – Hall
**Session 9: Global
Neurosurgery & Special
Topics**
16:00 - 18:00 Lectures

Kurt Schürmann – Hall

Peter Jannetta – Hall

Hanno Millesi – Hall



Sunday, 18th of June 2017

Kurt Schürmann – Hall

Session 10: Skull Base
08:00 - 10:00 Lectures

Peter Jannetta – Hall

**Session 11: Spinal
Tumors & Vascular
Lesions**
08:00 - 10:00 Lectures

Hanno Millesi – Hall

**Session 12: Trauma &
Peripheral Nerves**
08:00 - 10:00 Lectures

Break

Kurt Schürmann – Hall

Session 13: Skull Base
10:30 - 12:30 Lectures

Peter Jannetta – Hall

**Session 14:
Meningiomas**
10:30 - 12:30 Lectures

Hanno Millesi – Hall

Session 15: Spine
10:30 - 12:30 Lectures

Break

Kurt Schürmann – Hall

**Session 16: Functional
Neurosurgery**
13:30 - 15:30 Lectures

Peter Jannetta – Hall

Session 17: Brainstem
13:30 - 15:30 Lectures

Hanno Millesi – Hall

**Session 18: Special
Topics**
13:30 - 15:30 Lectures

Break

Kurt Schürmann – Hall

**Session 19: Special
Topics**
16:00 - 18:00 Lectures

Peter Jannetta – Hall

Session 20: Brain Tumor
16:00 - 18:00 Lectures

Hanno Millesi – Hall

Session 21: Spine
16:00 - 18:00 Lectures

Kurt Schürmann – Hall

Peter Jannetta – Hall

Hanno Millesi – Hall



Scientific Program

Saturday 17th June

8:00 Welcome Address

Samii, A
Fahlbusch, R
Samii, M

Opening Session

Chair: Choux M, Samii M

| | | |
|--------------|---------------|--|
| 09:00 | Rabischong, P | The importance of anatomy in the neurosurgical practice |
| 09:15 | Freund, H-J | Improving cortical dysfunctions - a new perspective for restorative neurosurgery |
| 09:30 | Konovalov, A | Surgical treatment of brainstem tumors |
| 09:45 | Basso, A | Management of pituitary adenomas: past, present, future |

10:00 Break

Kurt Schürmann – Hall

Session 1: Global Neurosurgery & Special Topics

Chair: Kalangu K, Kanno T, Reulen J

| | | |
|--------------|--------------------|---|
| 10:30 | Cheatham, M | Professor Madjid Samii, and the golden years of neurosurgical innovation |
| 10:45 | Özgen, T | Effect of experience and quality control in neurosurgery |
| 11:00 | Perrin, R | The raccoon eye unmasked |
| 11:15 | Kanno, T | Socio-medical supports for Asian developing countries as a neurosurgeon |
| 11:30 | Molina-Martinez, M | Capitalism and development of neurosurgery |
| 11:45 | Qureshi, M | Achieving sustainable development goals (SDGs): the role of humanitarian neurosurgery |
| 12:00 | Ohaegbulam, S | Novel approaches to neurosurgery challenges in Africa |
| 12:15 | Mahmud, RM | Africa rising: the story of CAANS |



12:30 Lunch Break

Session 4: Cerebrovascular

Chair: Feng L, Gilsbach J, Martin N

| | | |
|--------------|-------------------|--|
| 13:30 | Tu, Y-K | Long term results of high flow bypass for cerebral revascularization |
| 13:45 | Dehdashti, A | Cerebral revascularization (for aneurysm and ischemia) |
| 14:00 | Brito da Silva, H | Cerebral revascularization for aneurysms in the flow diverter era |
| 14:15 | Kato, Y | Advancement of aneurysm treatment |
| 14:30 | Sekhar, L | Basilar tip aneurysms; current role for microsurgery |
| 14:45 | Charbel, F | New advances in the management of vertebrobasilar disease |
| 15:00 | Morcos, J | The future of cerebrovascular surgery; it is not what it used to be |
| 15:15 | Baltsavias, G | Cranial dural AV-shunts: best surgical candidate according to classification systems |

15:30 Break

Session 7: Cerebrovascular

Chair: Kato Y, Nanda A, Tu Y-K

| | | |
|--------------|--------------|--|
| 16:00 | Niemeyer, P | Management of complex aneurysms |
| 16:15 | Rotim, K | Microsurgical/endovascular combined treatment of intracranial vascular lesions |
| 16:30 | Spagnuolo, E | Surgery of complex and giant aneurysms |
| 16:45 | Richling, B | Aneurysm therapy and times of change |
| 17:00 | Varsos, V | Endovascular treatment of cerebral aneurysms with flow diverters |
| 17:15 | Kiwit, J | Biofluid dynamics of intracranial aneurysms |
| 17:30 | Gusmao, S | Human placenta aneurysm model for training in vascular microsurgery |
| 17:45 | Hattingen, J | The impact of flow diverters on the therapy of intracranial aneurysm |



Peter Jannetta – Hall

Session 2: Sella Region

Chair: Arraez M, Fahlbusch R, Loyo-Varela M

| | | |
|--------------|-----------------|---|
| 10:30 | El Khamlichi, A | Long term surgical results in craniopharyngiomas |
| 10:45 | Kaye, A | Craniopharyngeoma - shifting paradigm |
| 11:00 | Cappabianca, P | Endoscopic endonasal surgery |
| 11:15 | Knosp, E | Pituitary surgery with respect to the cavernous sinus |
| 11:30 | Loyo-Varela, M | Pituitary tumors, a review of 3019 patients personally operated in 41 years |
| 11:45 | Kanaan, I | Challenges in management of pituitary tumors |
| 12:00 | Hadani, M | Surgical results of Cushing's disease |
| 12:15 | Carvalho, G | Endoscopic surgery of sella lesions |

12:30 Lunch Break

Session 5: Pain

Chair: Broggi G, Dan NG, Matthies C

| | | |
|--------------|----------------------|--|
| 13:30 | Gonzales-Portillo, M | Percutaneous balloon compression of the trigeminal ganglion for trigeminal neuralgia: review of critical technical details and outcome |
| 13:45 | Dan, NG | 30 year review of trigeminal neuralgia surgery |
| 14:00 | Turel, K | Microvascular decompression in trigeminal neuralgia |
| 14:15 | Elouahabi, A | Management of trigeminal neuralgia percutaneous procedures or microsurgery? What to choose? |
| 14:30 | Osorio, E | Microvascular decompression in familial trigeminal neuralgia |
| 14:45 | Yampolsky, CG | Motor cortex stimulation for central and neuropathic pain : lessons and management |
| 15:00 | Mirzayan, J | Functional microsurgery |

15:30 Break



Session 8: Vestibular Schwannoma & Hearing Restoration

Chair: Kaye A, Tatagiba M, Turel K

| | | |
|--------------|-------------|---|
| 16:00 | Mamytov, M | Result of acoustic neuroma surgery in Kyrgystan |
| 16:15 | Urculo, E | Old to new concepts, ideas and solutions in vestibular schwannoma microsurgery by Samii's technique |
| 16:30 | Bao, Y | The capsule of vestibular schwannoma and Samii's technique |
| 16:45 | Roser, F | On the shoulder of giants: improvement in vestibular schwannoma surgery over the last two decades |
| 17:00 | Boublata, L | Vestibular schwannoma surgery by the retrosigmoid approach with intraoperative facial nerve monitoring: 215 cases |
| 17:15 | Roche, PH | Contemporary management of large vestibular schwannomas |
| 17:30 | Rosahl, S | Brainstem auditory evoked potentials and the neurosurgeon - dual near-field conflict |
| 17:45 | Behr, R | Guidelines in ABI - Surgery - experience in 100+ cases |

Hanno Millesi – Hall

Session 3: Visualization & Technology Trends

Chair: Ammirati M, Kohmura E, Nabavi A

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|--------------|---------------|--|
| 10:30 | Lanfermann, H | Promotion of advanced neuroimaging |
| 10:45 | Wrede K | Potential of ultrahigh field MRI: a neurosurgeon's perspective |
| 11:00 | Martin, N | Virtual and augmented reality for neurosurgery |
| 11:15 | Broggi, G | Fluorescein assisted oncological and vascular neurosurgery |
| 11:30 | Umansky, F | Future trends in neurosurgery |
| 11:45 | Ammirati, M | Ethics of innovations in neurosurgery |
| 12:00 | Kohmura, E | High-tech and low-tech in neurosurgery |
| 12:15 | Holl, K | Virtual cerebral aneurysm clipping with real time haptic force feedback in neurosurgical education |



12:30 Lunch Break

Session 6: Epilepsy & Special Topics

Chair: Mohammadi B, Sandalcioglu E, Ture U

| | | |
|--------------|----------------|---|
| 13:30 | Raftopoulos, C | Neurosurgery impact in the treatment of refractory epilepsy |
| 13:45 | Chandra, S | Endoscopic disconnective surgery for drug resistant epilepsy- a new concept towards minimally invasive epilepsy surgery |
| 14:00 | Paglioli, E | Epilepsy surgery: selective posterior callosotomy for drop attacks |
| 14:15 | Zhao, GG | Stereo-EEG guided thermocoagulation in mesial temporal lobe epilepsy surgery: protocol, technique and early observation |
| 14:30 | Ture, U | The paramedian supra cerebellar - transtentorial selective amygdalo - hippocampectomy |
| 14:45 | El Shawarby, A | Vagal nerve stimulation for intractable epilepsy |
| 15:00 | Galanda, M | Improvements in arousal, motor control and behavior with deep cerebellar stimulation after severe brain injury |
| 15:15 | Rosseau, G | Report on the Works Health Assembly: May, 2017 |

15:50 Break

Session 9: Global Neurosurgery & Special Topics

Chair: Ciurea AV, El Khamlichi A, Konovalov A

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|--------------|-----------------|--|
| 16:00 | Ciurea, AV | A fascinating study about the resemblances of the anatomy and pathology of central nervous system in human and dolphin |
| 16:15 | Dechambenoit, G | The paradigm of multidisciplinary in neurosciences |
| 16:30 | Zverina, E | Influence of Madjid Samii on the level of neurosurgery in Central European countries |
| 16:45 | Akshulakov, S | The national center for neurosurgery Astana, Kazakhstan |
| 17:00 | El Azhari, A | Surgical management of medulloblastoma |
| 17:15 | Sanoussi, S | Surgical management of brain tumors in developing countries |
| 17:30 | Yrysov, K | Current tactics of multiple cerebral aneurysm surgery in Kyrgyzstan |
| 17:45 | Enchev, Y | Neurosurgery - safety first |



Sunday 18th of June

Kurt Schürmann – Hall

Session 10: Skull Base

Chair: Grotenhuis A, Morcos J, Ramina R

| | | |
|--------------|--------------|---|
| 08:00 | El Fiki, M | Comprehensive management strategy for endoscopic clivus chordoma , Alexandria experience |
| 08:15 | Al-Mefty, O | Surgical treatment of chordomas |
| 08:30 | Froelich, S | Combined strategies for complex skull base chordomas and chondrosarcomas |
| 08:45 | Jung, H-W | Paradigm change of surgical management of petroclival meningiomas |
| 09:00 | Nanda A | Skull base meningiomas: Quo Vadis |
| 09:15 | Tatagiba, M | Surgical Management of 1.000 vestibular schwannomas in the era of radiosurgery |
| 09:30 | Landeiro, JA | Skull base tumors: Moving towards new approaches foramen magnum meningiomas: choosing the best approach |
| 09:45 | Debus, J | Innovation in the radio-therapy of skull base tumors |

10:00 Break

Session 13: Skull Base

Chair: Al Mefty O, Delfini R, Sekhar L

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|--------------|----------------------|---|
| 10:30 | Elhuseiny Khalil, HM | Skull base surgery past-present-future |
| 10:45 | Kotb, A | Surgical experience with fronto-lateral approach in the treatment of anterior cranial fossa and suprasellar lesions |
| 11:00 | Selviaridis | The supraorbital keyhole approach in the management of tumors of the anterior cranial fossa |
| 11:15 | Delitala, A | Supraorbital approach to anterior cranial lesions |
| 11:30 | Steno, J | Tuberculum sellae meningiomas: nuances of operative techniques and the outcome. |
| 11:45 | Matula, C | All in and around the orbit |
| 12:00 | Bakhti, S | Transcranial and lateral approach for intraorbital lesions |
| 12:15 | Del Valle, RR | The role of gamma knife radiosurgery in skull base tumors |



12:45 Lunch Break

Session 16: Functional Neurosurgery

Chair: Lozano A, Sturm V, Voges J

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|--------------|---------------|--|
| 13:30 | Lozano, AM | Advances in functional neurosurgery: from Alzheimer's disease to focused ultrasound |
| 13:45 | Voges, J | Deep brain stimulation - What's coming now? |
| 14:00 | Matthies, C | Functional stimulation in the central nervous system - evolution and personal experience |
| 14:15 | Bothe, HW | Surgery of treatment-resisting unipolar major depression - a novel approach concerning targets and technique |
| 14:30 | Gharabaghi, A | Novel technologies for the restoration of the motor function |
| 14:45 | Nikkhah, G | Journeys to the center of the brain: a personal perspective |
| 15:00 | Stieglitz, L | Stereotaxy and space travel - two things that require accuracy |
| 15:15 | Acar, F | Neuromodulation in minimally conscious state or nerve stimulation in Parkinson's disease, where are we? |

15:30 Break

Session 19: Special Topics

Chair: Buchfelder M, Charbel F, Krauss J

| | | |
|--------------|---------------|---|
| 16:00 | Mehdorn, M | Ethics in neurosurgical research |
| 16:15 | Mathiesen, T | The difference between scientific proof and evidence |
| 16:30 | Unterberg, A | Outcome and quality of life following removal of lesions within the pineal region |
| 16:45 | Grotenhuis, A | The anatomical substrate of cerebellar mutism |
| 17:00 | Krauss, J | Development of functional neurosurgery: what will be the future? |
| 17:15 | Vajkozy, P | New strategies for prevention of cerebral vasospasm |
| 17:30 | Misra, B | Microsurgery of complex intracranial aneurysms |
| 17:45 | Lumenta C | Intracranial aneurysm surgery: new technologies or technological changes |



Peter Jannetta – Hall

Session 11: Spinal Tumors & Vascular Lesions

Chair: Brotchi J, Misra B, Turel K

| | | |
|--------------|--------------|---|
| 08:00 | Smrcka, M | Problems with indication of operation of intramedullary lesions |
| 08:15 | Sajko, T | Intradural spinal tumors: surgical considerations and institutional experience |
| 08:30 | Konovalov, N | Surgical treatment of spinal cord tumors in adults |
| 08:45 | Bahramin, E | Filum terminal mixopapillary ependymoma versus ependymoma of the conus medullaris |
| 09:00 | Robertson, S | Minimally invasive treatment of spinal metastases |
| 09:15 | Brotchi, J | My life experience on spinal cord hemangioblastomas. How I did it |
| 09:30 | Zhang, H-Q | Cure the spinal cord AVM/F with hybrid surgery |
| 09:45 | Caglar, S | Surgical management of spinal AVMs |

10:00 Break

Session 14: Meningiomas

Chair: Pamir N, Tomasello F, Walter G

| | | |
|--------------|--------------|---|
| 10:30 | von Deimling | New classification of meningiomas |
| 10:45 | Florian, S | The role of basal cisterns in the development of skull base meningiomas |
| 11:00 | Nakamura, M | Surgical treatment of skull base meningiomas - current concepts |
| 11:15 | Bundschuh, O | Surgical and radiological treatment of meningiomas within the cavernous sinus |
| 11:30 | Tomasello, F | The current management of parasagittal meningiomas |
| 11:45 | Antunes, A | The importance of the Simpson grade in the recurrence rate of parasagittal meningiomas |
| 12:00 | Bettag, M | Contralateral interhemispheric transfalcine approach to deep seated parafalcine meningiomas |
| 12:15 | Pamir, MC | Surgical treatment of tentorial meningiomas |
| 12:30 | Sidi Said, A | Irradiation risk in neurosurgery: what about collaboration with AIEA & WHO? |



12:45 Lunch Break

Session 17: Brainstem

Chair: Bertalanffy H, Hongo K, Sidi Said A

| | | |
|--------------|-------------|---|
| 13:30 | Hartmann, C | Molecular alterations in brainstem gliomas |
| 13:45 | Arraez, M | Surgical approaches to pontomesencephalic tumors |
| 14:00 | Hussein, S | Microsurgery of intrinsic tumors of the brainstem |
| 14:15 | Choux, M | Brainstem tumors in children classification and management |
| 14:30 | Wong TT | Management of medulloblastoma in children in molecular era: the current status in Taiwan. |
| 14:45 | Hongo, K | Surgery for the brainstem cavernous malformation |
| 15:00 | Ramina, R | Brainstem cavernomas: surgical techniques and long-term results |
| 15:15 | Benes, V | Supracerebellar-infratentorial approach - alternative to retrosigmoid approach |

15:30 Break

Session 20: Brain Tumor

Chair: Black PB, Schackert G, Stummer W

| | | |
|--------------|--------------|---|
| 16:00 | Meyer, B | Surgery of highly eloquent gliomas |
| 16:15 | Tonn, JC | Molecular imaging for brain tumor surgery |
| 16:30 | Unsgard, G | The concept of operating brain tumors with navigated instruments in updated intraoperative 3D ultrasound volumes method and results |
| 16:45 | Solaroglu, I | Fluorescein-sodium-guided surgery |
| 17:00 | Stummer, W | Intra-operative fluorescence-imaging: a new paradigm in neurosurgery |
| 17:15 | Schackert, G | Intraoperative visualization of functional brain areas: what progress have we made during the last years? |
| 17:30 | Jokovic, M | Our results of treatment 118 patients with supratentorial LGG |
| 17:45 | Rotta, JM | Low-grade tumors - what makes the difference |



Hanno Millesi – Hall

Session 12: Trauma & Peripheral Nerves

Chair: Ghodsi S, Servadei F, von Wild K

| | | |
|--------------|--------------------|--|
| 08:00 | Grothe, C | Molecular and cellular key concepts in peripheral nerve regeneration |
| 08:15 | Haastert-Talini, K | Biomaterials approaches towards peripheral nerve grafts: from molecule to product |
| 08:30 | Rasulic, L | Brachial plexus surgery: lessons learned within 25 years practice |
| 08:45 | van Ouwerkerk, P | Change of cortical motor representation after late nerve transfer in obstetric brachial plexus lesion |
| 09:00 | v. Wild, K | Morphological evidence for spinal neurons plasticity and motor nerve regeneration induced by peripheral nerve grafting to the spinal cord in rats |
| 09:15 | Emamhadi, MR | Nerve transfer for the restoration of hand function in tetraplegia after spinal cord injury |
| 09:30 | Servadei, F | Guidelines for TBI - what is the future? |
| 09:45 | Azevedo-Filho, H | Decompressive craniectomy for severe traumatic brain injury: its role after the rescue ICP |

10:00 Break

Session 15: Spine

Chair: Konovalov N, Lanksch W, Osorio E

| | | |
|--------------|-------------------|--|
| 10:30 | Sasani, M | Anatomical assessment of variations in Kambin's Triangle - a surgical and cadaver study |
| 10:45 | Weigand, H | Radiological diagnostic of lumbar pain |
| 11:00 | Harms, J | Treatment option in AIS (Adolescent Idiopathic Scoliosis) |
| 11:15 | Oskouian, R | Lateral spine surgery & lumbar plexus |
| 11:30 | Kotb, MM | Twenty years experience in endoscopic lumbar disc surgery |
| 11:45 | Pedachenko, E | Minimally invasive spine neurosurgery |
| 12:00 | Perilla-Cepeda, T | New vision of the degenerative disc disease and treatment with biological nucleoplasty (growth factor agents) |
| 12:15 | Masini, M | Microsurgical treatment of lumbar spondylolysis and spondylolisthesis |
| 12:30 | El Azm, M | Complication of spinal instrumentation |



12:45 Lunchbreak

Session 18: Special Topics

Chair: Di Rocco C, El Hakim A, Oi S

| | | |
|--------------|-------------|--|
| 13:30 | Gleeson, M | The facial value of skull base surgery |
| 13:45 | Lenarz, T | Hearing restoration with auditory implant – state of the art and future perspectives |
| 14:00 | Godano, U | Endoscopic and keyhole endoscope assisted transcranial microsurgery: where are we? |
| 14:15 | Winkler, A | Surgery in and around the third ventricle: new micro-neuroanatomical landmarks and perspectives |
| 14:30 | Oi, S | Historical trend of hydrocephalus research at INI and new neurosurgical technique with the world-finest neuroendoscope |
| 14:45 | Ezzat, S | Benign increased intracranial pressure |
| 15:00 | Elhakim, A | Pitfall complications and problems of secondary hydrocephalus due to posterior fossa lesions, 40 years experience |
| 15:15 | Schumann, M | Is individualized medicine in pediatric neurosurgery the rule or the exception? |

15:30 Break

Session 21: Spine

Chair: Masini M, Schaller K, Yampolski C

| | | |
|--------------|----------------|--|
| 16:00 | Lafuente, J | Craniocervical junction instability |
| 16:15 | Camins, MB | Approaches to the cervical spine: determinate factors in selecting the anterior vs. posterior approach |
| 16:30 | Burgos, R | Cervical spondylotic myelopathy: management strategies and surgical complications in 100 consecutive cases |
| 16:45 | Rohde, V | Alternative dorsal approach to the cervical spine for myelopathy or spinal meningioma |
| 17:00 | Zink, PM | The cervical spine: 25 years of development |
| 17:15 | Radek, A | Spare fractures of the severe thoracic spine dislocations. The own experiences with treatment and literature reviews |
| 17:30 | El Abbadi, N | Applications of percutaneous vertebroplasty and balloon kyphoplasty in spine surgery |
| 17:45 | Deinsberger, W | Spinal infections |