

ISAH 2019

Amsterdam, The Netherlands / June 25 - 28, 2019

JUNE 25 2019 - TUESDAY

18:00 - 19:30

Welcome Reception at Exhibition Area

JUNE 26, 2019 - WEDNESDAY

Main Hall

Parallel Hall

08:30 - 08:40

Opening Ceremony

08:40 - 10:30

Session 1 - Early brain injury after SAH

***Moderators: Javier Provencio, USA &
Robert F. James, USA***

08:40 - 09:00

Role of inflammation in early brain injury after SAH
Alex H. Choi, University of Texas, USA

09:00 - 09:20

Relationship between early brain injury and delayed cerebral ischemia
Loch Macdonald, Edge Therapeutics, Inc. / University of Toronto, USA/Canada

09:20 - 09:30

O-001 Evaluation of proinflammatory markers and corticosterone in the early phase of subarachnoid haemorrhage (SAH) using a blood injection model in male Wistar rats
Annika Bach, RWTH Aachen University, Germany

09:30 - 09:40

O-002 Cerebral energy status and altered metabolism in early brain injury after aneurysmal SAH: First results of a prospective 31P-MRS study
***(Presented by Alice Görke instead of Ondra Petr),
Medical University Innsbruck, Austria***

09:40 - 09:50

O-003 Role of endothelial NO-Synthase in early brain injury after experimental subarachnoid hemorrhage
Nicole Angela Terpolilli, Institute for Stroke and Dementia Research, Germany

09:50 - 10:00

O-004 TT01001 restores oxidative stress-based apoptosis via mitoNEET induced mitophagy after subarachnoid hemorrhage in rats
(Presented by Anwen Shao instead of Tongyu Zhang, The First Affiliated Hospital of Harbin Medical University, China

10:00 - 10:10

O-005 Early spontaneous spreading depolarizations deepen cerebral ischemia in an experimental mouse SAH model
Sahin Hanalioglu, Hacettepe University, Turkey

10:10 - 10:20	O-006 Proteomic studies of cerebrospinal fluid to identify new biomarkers of early brain injury in patients with hydrocephalus following aneurysmal subarachnoid haemorrhage Bartosz Sokół, Poznan University of Medical Sciences, Poland		
10:20 - 10:30	O-007 Delayed resolution of cerebral edema is associated with poor outcome after non-traumatic subarachnoid hemorrhage Verena Rass, Medical University of Innsbruck, Austria		
10:30 - 11:00	Coffee Break / Posters / Exhibitors at Exhibition Area		
11:00 - 12:40	Session 2 - Unruptured intracranial aneurysms	11:00 - 12:40	Session 3 - Neurovascular coupling and CBF regulation after SAH
	Moderators: Aaron Dumont, USA & Sepideh Amin-Hanjani, USA		Moderators: Nerissa Ko, USA & Emanuela Keller, Switzerland
11:00 - 11:20	Molecular basis for aneurysm wall formation, growth and rupture Tomohiro Aoki, National Cerebral and Cardiovascular Center, Japan	11:00 - 11:20	Neurovascular coupling and CBF regulation in the healthy brain Martin Lauritzen, University of Copenhagen, Denmark
11:20 - 11:40	Lessons learned from a 'natural history study' in unruptured intracranial aneurysms Akio Morita, Nippon Medical School, Japan	11:20 - 11:40	Current knowledge and future perspectives Gerrit Alexander Schubert, RWTH Aachen University, Germany
11:40 - 11:50	O-008 Aspirin decreases risk of intracranial aneurysm growth in subjects with multiple intracranial aneurysms David Hasan, University of Iowa, USA	11:40 - 11:50	O-014 Long-lasting impairment of neurovascular reactivity after experimental SAH Nicole Angela Terpolilli, Institute for Stroke and Dementia Research, Germany
11:50 - 12:00	O-009 Management decisions on unruptured intracranial aneurysms before and after implementation of the PHASES score Laurie Hollands, University Medical Center Utrecht, The Netherlands	11:50 - 12:00	O-015 Impact of heme degradation products on the pathogenesis of cerebral vasospasm after subarachnoid hemorrhage Alexander Joerk, Jena University Hospital, Germany
12:00 - 12:10	O-010 Beware of the proximal aneurysm, size alone doesn't matter: Results from the TAG database Ammar Kadhim, The James Cook University Hospital, UK	12:00 - 12:10	O-016 New risk score of the early period after spontaneous subarachnoid hemorrhage: for prediction delayed cerebral ischemia Yuanjian Fang, Zhejiang University, China
12:10 - 12:20	O-011 Change in intracranial aneurysms morphology during growth evaluated with MRA Eva Leemans, University of Amsterdam, The Netherlands	12:10 - 12:20	O-017 A novel method for cerebral blood flow augmentation in a swine model of impaired CBF: The intracranial pulsating balloon Erez Nossek, NYU Medical Center, USA
12:20 - 12:30	O-012 Correlation between hemodynamics and collagen turnover measured by radiocarbon birth dating as an in vivo indicator of instability in intracranial aneurysms Katharina Hackenberg, University Hospital Mannheim, Germany	12:20 - 12:30	O-018 TCD and SEP together might indicate threatening of cerebral metabolic conditions in patients with subarachnoid hemorrhage and vasospasms Alexander Erich Hartmann, Hospitals of Cologne, Germany
12:30 - 12:40	O-013 A compelling economic argument to offer clipping as a treatment of choice for unruptured MCA aneurysms: results from the TAG database Nitin Mukerji, James Cook University Hospital, UK	12:30 - 12:40	O - 019 Inhalative nitric oxide treatment for patients with severe cerebral vasospasm after aneurysmal subarachnoid hemorrhage Christian Fung, University of Bern, Germany

12:40 - 14:15		Lunch Break and Poster Session	
13:00 13:45		Industry Sponsored Luncheon Symposium I Surgical Theater	
14:15 - 15:55	Session 4 - Delayed cerebral ischemia	14:15 - 15:55	Session 5 - Subarachnoid Hemorrhage - Oral abstracts 1
	Moderators: Daniel Hanggi, Germany & Loch Macdonald, Canada		Moderators: Norihito Shimamura, Japan & Jaakko Rinne, Finland
14:15 - 14:35	20 years of research on cortical spreading depolarizations: answered and unanswered questions Jens Dreier, Charité University Berlin, Germany	14:15 - 14:25	O - 026 Neurological outcome before and after standardized management of patients with aneurysmal subarachnoid hemorrhage Amr Abdulazim, University Hospital Mannheim, University of Heidelberg, Germany
14:35 - 14:55	Is there a role for hypertension induction after the HIMALAIA trial? Walter van den Bergh, University of Groningen, The Netherlands	14:25 - 14:35	O - 027 Is clipping better than coiling in the treatment of patients with oculomotor nerve palsies induced by posterior communicating artery aneurysms? A meta-analysis of cohort studies Feng Zheng, First Affiliated Hospital of Gannan Medical University, China
14:55 - 15:05	O-020 What is the contemporary rate and outcome in patients that experience clinical deterioration due to Delayed Cerebral Ischaemia (clinical DCI) in aneurysmal Subarachnoid haemorrhage (aSAH)? Hiren Patel, University of Manchester, UK	14:35 - 14:45	O - 028 Automated subarachnoid hemorrhage evaluation on head CT using artificial intelligence Daniel Chow, University of California, USA
15:05 - 15:15	O - 021 Complication rate of intraarterial treatment of severe cerebral vasospasm after subarachnoid hemorrhage with nimodipine and percutaneous transluminal balloon angioplasty: Worth the risk? Marlies Wagner, Frankfurt University Hospital, Germany	14:45 - 14:55	O - 029 Stereotactic catheter ventriculocisternostomy and cisternal lavage reduces delayed cerebral infarction and improves outcome in patients with poor grade subarachnoid hemorrhage. A before and after study Roland Roelz, Medical Center - University of Freiburg, Germany
15:15 - 15:25	O - 022 Outcomes in 233 patients with aneurysmal subarachnoid hemorrhage treated with a continuous intravenous low-dose heparin infusion Robert F James, University of Louisville School of Medicine, USA	15:05 - 15:15	O - 030 Complications and outcomes following angiographically negative subarachnoid hemorrhage Cody Lee Nesvick, Mayo Clinic, USA
15:25 - 15:35	O - 023 Quantitative EEG-regulated and exam-controlled hemodynamic augmentation for delayed cerebral ischemia after subarachnoid hemorrhage Julien J Cavanagh, State University of New York Downstate Medical Center, USA	15:15 - 15:25	O - 031 Renal denervation reduces cerebral vasospasm after subarachnoid hemorrhage via suppression of central sympathetic nerve activation in rats Yushin Takemoto, Kumamoto University, Japan
15:35 - 15:45	O - 024 Altered CSF-metabolomics after aneurysmal SAH and delayed cerebral ischemia (Presented by Wing-Hann Ho instead of Ondra Petr), Medical University Innsbruck, Austria	15:15 - 15:25	O - 032 "Clip first policy" versus "coil first policy" for the exclusion of middle cerebral artery aneurysm David Hassanein Berro, CHU de Caen, France
15:45 - 15:55	O - 025 Predicting delayed cerebral ischemia using clinical and routine laboratory results Bappaditya Ray, The University of Oklahoma Health Sciences Center, USA	15:25 - 15:35	O - 033 The safety, feasibility, and efficacy of using continuous IV tirofiban in acute aneurysmal subarachnoid hemorrhage: preliminary results Lauren Allan, University of Iowa Hospitals and Clinics, USA

			15:35 - 15:45	O - 034 Computational fluid dynamics for predicting the recurrence of unruptured cerebral aneurysm after stent-assisted coil embolization Masato Shiba, Mie University Graduate School of Medicine, Japan
			15:45 - 15:55	O - 035 Elective clipping of middle cerebral artery aneurysms: clinical and radiological outcome over a period of 10 years Tomas Menovsky, Antwerp University Hospital, Belgium
15:55 - 16:30	Coffee Break / Posters / Exhibitors at Exhibition Area			
16:30 - 18:00	Session 6 - Advances/challenges in aneurysm repair		16:30 - 18:00	Session 7 - Genetic and biomarker studies
	Moderators: Nima Etminan, Germany & Serge Marbacher, Switzerland			Moderators: Ian Galea, UK & Sherry Chou, USA
16:30 - 16:50	Advanced concepts for surgical repair of unruptured intracranial aneurysms Volker Seifert, Center of Clinical Neurosciences Johann Wolfgang Goethe-University, Germany		16:30 - 16:50	Established and promising biomarkers in SAH Sherry Chou, University of Pittsburgh, USA
16:50 - 17:10	Stenting of ruptured intracranial aneurysms - Pro: A hybrid neurosurgeons perspective Pascal Jabbour, Thomas Jefferson University Hospital, USA		16:50 - 17:10	The International Stroke Genetics Consortium; how it will improve our knowledge on the role of genetics in patients with intracranial aneurysms Ynte Ruigrok, University Medical Center Utrecht, The Netherlands
17:10 - 17:30	Stenting of ruptured intracranial Aneurysms - Con: A neurosurgical perspective Sepideh Amin-Hanjani, University of Illinois, USA		17:10 - 17:20	O - 039 Haptoglobin genotype and aneurysmal subarachnoid haemorrhage: individual patient data analysis Ben Gaastra, University Hospital Southampton NHS Foundation Trust, UK
17:30 - 17:40	O - 036 Treatment during out of office hours is not related to complications or outcome after endovascular aneurysm closure Jasper Hans van Lieshout, Heinrich Heine University, Germany		17:20 - 17:30	O - 040 Neurofilament light chain is a predictor of outcome after aneurysmal subarachnoid haemorrhage Ian Galea, University of Southampton, UK
17:40 - 17:50	O - 037 Impact of aneurysm shape and neck configuration on cerebral infarction rates related to microsurgical clipping of intracranial aneurysms Lukas Goertz, University of Cologne, Germany		17:30 - 17:40	O - 041 Genetics of Intracranial aneurysm: An Indian perspective Moinak Banerjee, Human Molecular Genetics Laboratory, Rajiv Gandhi Centre for Biotechnology, India
17:50 - 18:00	O - 038 Procedural clinical complications, case-fatality risks, and risk factors in endovascular and neurosurgical treatment of unruptured intracranial aneurysms: a systematic review and meta-analysis Annemijn Algra, University Medical Center Utrecht, The Netherlands		17:40 - 17:50	O - 042 Cell surface based multicolour flow cytometric immunophenotyping of peripheral blood T helper cell subsets after aneurysmal subarachnoid hemorrhage (SAH) Shafqat Rasul Chaudhry, University Hospital Bonn, Pakistan
			17:50 - 18:00	O - 043 Timecourse of metabolomics in CSF after aneurysmal SAH Ondra Petr, Medical University Innsbruck, Austria

19:30 - 21:30	Faculty Dinner (Invitation Only)		
JUNE 27, 2019 - THURSDAY			
	Main Hall		Parallel Hall
08:30 - 10:10	Session 8 - UIA / SAH epidemiology	08:30 - 10:10	Session 9 - Animal studies
	Moderators: Gabriel Rinkel, The Netherlands & Jurgen Beck, Germany		Moderator: Nikolaus Plesnila, Germany & Tomohiro Aoki, Japan
08:30 - 08:50	Long-term outcomes after SAH Gabriel Rinkel, University Medical Center Utrecht, The Netherlands	08:30 - 08:50	Animal models in SAH research: towards standardization of experiments. Serge Marbacher, Kantonsspital Aarau, Switzerland
08:50 - 09:10	Risk factors for and time trends in the worldwide incidence of aneurysmal subarachnoid hemorrhage Ale Algra, University Medical Center Utrecht, The Netherlands	08:50 - 09:10	Translation of animal research into novel clinical treatments Nikolaus Plesnila, Ludwig-Maximilians Universität München, Germany
09:10 - 09:20	O - 044 Natural history of intracranial aneurysm already treated: risk of bleeding and risk of retreatment Thomas Metayer, CHU de Caen, France	09:10 - 09:20	O - 050 Meta-analysis of quality standards in in-vivo animal studies of subarachnoid haemorrhage Davide Marco Croci, University of Bern, Switzerland
09:20 - 09:30	O - 045 Influence and treatment of intracerebral hematoma in patients with atraumatic subarachnoid hemorrhage Stefan Gerner, University Hospital Erlangen, Germany	09:20 - 09:30	O - 051 Complement component 3 (C3)-mediated activation of glial and vascular microenvironment after experimental subarachnoid hemorrhage (SAH) Aabi Okute, Charité - Universitätsmedizin, Germany
09:30 - 09:40	O - 046 Comparison of rupture risk between familial and sporadic intracranial aneurysms: an individual patient data meta-analysis Charlotte Zuurbier, University Medical Center Utrecht, The Netherlands	09:30 - 09:40	O - 052 A high wall shear stress and a mechanical stretch cooperatively regulate intracranial aneurysm formation Hirokazu Koseki, Tokyo Women's Medical University Medical Center East, Japan
09:40 - 09:50	O - 047 Age standardised mortality and sudden death from aneurysmal subarachnoid haemorrhage Linda Jayne Nichols, University of Tasmania, Australia	09:40 - 09:50	O - 053 Neointima formation and thrombus organization after coil and stent treatment is mediated by cell migration from the adjacent vital vessel wall in rat sidewall aneurysms Fabio Strange, Kantonsspital Aarau, Switzerland
09:50 - 10:00	O - 048 Antipsychotic drug use among 1144 patients after aneurysmal subarachnoid hemorrhage: a population-based case-control study Juho Tapio Paavola, University of Eastern Finland, Finland	09:50 - 10:00	O - 054 Haptoglobin attenuates parenchymal vasoconstriction and improves outcome in a mouse model of chronic intrathecal haemoglobin exposure Patrick Garland, University of Southampton, UK
10:00 - 10:10	O - 049 Sex differences in neurological complications and outcome after aneurysmal subarachnoid haemorrhage (aSAH) Ronil Chandra, Monash University, Australia	10:00 - 10:10	O - 055 The role of Na ⁺ /K ⁺ -ATPase alpha isoforms in spreading depolarization studied in knock-out mice Clemens Reiffurth, Charité-University Medicine Berlin, Germany
10:10 - 10:45	Coffee Break / Posters / Exhibitors at Exhibition Area		
10:45 - 12:30	Session 10 - Ongoing and recently completed clinical trials	10:45 - 12:30	Session 11 - Neuroinflammation

	Moderators: Miika Korja, Finland & Mervyn Vergouwen, The Netherlands		Moderators: Hidetoshi Kasuya, Japan & Alex Choi, USA
10:45 - 11:00	Final results of the NEWTON 2 trial <i>Daniel Hänggi, University of Heidelberg, Germany</i>	10:45 - 11:05	Defining and monitoring neuroinflammation in SAH <i>Nerissa Ko, University of California, USA</i>
11:00 - 11:15	Final results of the EARLY DRAIN trial <i>Stefan Wolf, Charité University Berlin, Germany</i>	11:05 - 11:25	Neuroinflammation as a target for intervention in subarachnoid hemorrhage <i>Hidenori Suzuki, Mie University, Japan</i>
11:15 - 11:30	Aneurysmal subarachnoid hemorrhage - red blood cell transfusion and outcome (SAHARA): a randomized controlled trial (rationale and study status) <i>Shane English, The Ottawa Hospital, Canada</i>	11:25 - 11:35	O - 057 Inflammatory preconditioning against microglia-induced neuronal cell death following subarachnoid hemorrhage (SAH) <i>Ulf Schneider, Charité - Universitätsmedizin Berlin, Germany</i>
11:30 - 11:45	ULTRA early tranexamic acid after subarachnoid hemorrhage (rationale and study status) <i>Peter Vandertop, Amsterdam University Medical Centers, The Netherlands</i>	11:35 - 11:45	O - 058 Counteracting microglia (MG) development and activation to overcome inflammatory secondary brain injury after experimental subarachnoid hemorrhage (eSAH) <i>Ulf Schneider, Charité - Universitätsmedizin Berlin, Germany</i>
11:45 - 12:00	French Intraventricular fibrinolysis trial (rationale and study status) <i>Thomas Gaberel, University Hospital of Caen, France</i>	11:45 - 11:55	O - 059 The Interleukin-6 receptor antagonist Tocilizumab reduces vasospasms, microclot formation and neuronal cell death in a rabbit model of subarachnoid haemorrhage <i>Davide Marco Croci, University of Bern, Switzerland</i>
12:00 - 12:15	PROTECT-U (rationale and study status) <i>Nima Etminan, Medical Faculty Mannheim, University of Heidelberg, Germany</i>	11:55 - 12:05	O - 060 Systemic and CSF Interleukin-1alpha expression in a rabbit closed cranium subarachnoid haemorrhage model <i>Davide Marco Croci, University of Bern, Switzerland</i>
12:15 - 12:30	O - 056 Prevention of clinical deterioration due to DCI post-aneurysmal SAH (aSAH) in high-risk patients with clazosentan: The REACT study <i>Stephan Mayer, Henry Ford Neuroscience Institute, USA</i>	12:05 - 12:15	O - 061 The natural course of cerebrospinal fluid parameters ≤ 20 days after aneurysmal subarachnoid hemorrhage <i>Inez Koopman, University Medical Center Utrecht, The Netherlands</i>
		12:15 - 12:25	O - 062 Clinical significance of elevated interleukin (IL)-10 levels in aneurysmal subarachnoid hemorrhage (SAH) patients <i>Sajjad Muhammad, University of Helsinki and Helsinki University Hospital, Finland</i>
12:30 - 14:00	Lunch Break and Poster Session		
12:30 - 14:00	Faculty Meeting (Studio 2)		
14:00 - 15:45	Session 12 - Other cerebral and extracerebral complications after SAH	14:00 - 15:45	Session 13 - Subarachnoid Hemorrhage - Oral abstracts 2

	Moderators: Michael Diring, USA & Carl Muroi, Switzerland		Moderators: Timo Koivisto, Finland & Hiroki Ohkuma, Japan
14:00 - 14:20	Subarachnoid hemorrhage is a multisystem disease Michael Diring, Washington University, USA	14:00 - 14:10	O - 069 Vitamin D – a new perspective in treatment of cerebral vasospasm Sepide Kashefiolasi, University Hospital Frankfurt, Germany
14:20 - 14:40	Respiratory complications and management in patients with SAH Raimund Helbok, Medical University of Innsbruck, Austria	14:10 - 14:20	O - 070 Local hemodynamics of rupture points of cerebral aneurysms evaluated with computational fluid dynamics (CFD) Fujimaro Ishida, Mie Chuo Medical Center NHO, Japan
14:40 - 14:50	O - 063 Rebleeding rate in 2 comprehensive stroke units using different blood pressure management Lionel Calviere, Toulouse Neuroimaging Center INSERM, France	14:20 - 14:30	O - 071 Prediction of functional outcome using quantified blood volume in patients with aneurysmal subarachnoid hemorrhage Wessel van der Steen, University of Amsterdam, The Netherlands
14:50 - 15:00	O - 064 Prognostic model for chronic shunt-dependent hydrocephalus following aneurysmal subarachnoid haemorrhage Hendrik-Jan Mijderwijk, Heinrich Heine University, Germany	14:30 - 14:40	O - 072 Endovascular coiling or neurosurgical clipping in aneurysmal subarachnoid hemorrhage? Development and internal validation of a prognostic model in the International Subarachnoid Aneurysm Trial (ISAT) Simone Dijkland, Erasmus MC University Medical Center, The Netherlands
15:00 - 15:10	O - 065 Risk factors of shunt dependent hydrocephalus in aneurysmal subarachnoid hemorrhage: our experience and literature review Maria Blagia, University of Bari, Italy	14:40 - 14:50	O - 073 Significance of tenascin-C expression in an acute phase of subarachnoid hemorrhage Fumi Nakano, NHO Mie Chuo Medical Center, Japan
15:10 - 15:20	O - 066 Interrogating the heart-brain interaction after subarachnoid hemorrhage in the experimental and clinical setting Ran Xu, Charité University Hospital, Germany	14:50 - 15:00	O - 074 Activation of STAT3 in CA1 and the dentate gyrus after subarachnoid hemorrhage Koji Osuka, Alchi Medical University, Japan
15:20 - 15:30	O - 067 Decompressive craniotomy for poor grade subarachnoid hemorrhage patients. Justification and Efficiency Anton Konovalov, Burdenko Neurosurgical Institute, Russia	15:00 - 15:10	O -075 Severity of early brain injury after cerebral aneurysm rupture: a risk prediction attempt using collaborative intelligent classifiers Nina Soultanian, Shahid Beheshti University of Medical Sciences, Iran
15:30 - 15:40	O - 068 Prognostic value of delayed cerebral edema in poor-grade SAH Ramon Torne, Hospital Clinic of Barcelona, Spain	15:10 - 15:20	O-076 Guideline to improve poor-grade subarachnoid hemorrhage based on intraoperative pathophysiological findings Norihito Shimamura, Hirosaki University Graduate School of Medicine, Japan
		15:20 - 15:30	O-077 Systemic HMGB1, a novel predictive biomarker for cerebral vasospasm in Subarachnoid Hemorrhage Sajjad Muhammad, University of Helsinki and Helsinki University Hospital, Finland

		15:30 - 15:40	O-078 Choice of lumbar cerebrospinal fluid drainage in aneurysmal subarachnoid hemorrhage <i>Sheng Chen, Zhejiang University, China</i>
15:45 - 16:15	Coffee Break / Posters / Exhibitors at Exhibition Area		
16:15 - 17:55	Session 14 - Novel imaging techniques	16:15 - 17:55	Session 15 - Neuropsychological and functional outcomes
	<i>Moderators: Thomas Gaberel, France & Jan Claassen, USA</i>		<i>Moderators: Philippe Bijlenga, Switzerland & Jorge Mejia-Mantilla, Colombia</i>
16:15 - 16:35	Novel radiological surrogates to estimate the risk of rupture in intracranial aneurysms <i>David Hasan, University of Iowa Hospitals, USA</i>	16:15 - 16:35	Cerebral infarction and cognitive outcome after SAH <i>George Wong, Chinese University of Hong Kong, China</i>
16:35 - 16:55	Quantifying MRI-specific features of injury in SAH <i>Sarah Nelson, Johns Hopkins Hospital, USA</i>	16:35 - 16:55	Neuropsychological outcomes in SAH patients: lessons learned and future perspectives <i>Stephan Mayer, William T. Gossett Endowed Chair of Neurology, USA</i>
16:55 - 17:05	O-079 Comparison of intra- and postoperative three-dimensional digital subtraction angiography in evaluation of the surgical result after intracranial aneurysm treatment <i>Serge Marbacher, Kantonsspital Aarau, Switzerland</i>	16:55 - 17:05	O-085 The ACoA syndrome revisited? Additional rebuttal by using measures for social cognition <i>Anne Marie Buunk, University Medical Center Groningen, The Netherlands</i>
17:05 - 17:15	O-080 Vessel wall enhancement of IntraCranial Aneurysms on high resolution MRI: a Rupture Sign? the ICARUS study <i>Fuat Arikian Abelló, Neurosurgery and Neurotraumatology Research Unit (UNINN) and Vall d'Hebron University Hospital, Spain</i>	17:05 - 17:15	O-086 Ventricular volume in relation to cognitive outcome after aneurysmal subarachnoid hemorrhage <i>Irene Huenges Wajer, University Medical Center Utrecht, The Netherlands</i>
17:15 - 17:25	O-081 Quantitative susceptibility mapping (QSM) and vessel wall imaging (VWI) MRI sequences in identifying subjects with intracranial aneurysms who have microbleeds <i>Edgar Samaniego, University of Iowa, USA</i>	17:15 - 17:25	O-087 Changes in neuronal activity in good grade SAH survivors correlates with neurocognitive outcomes <i>Leodante Da Costa, University of Toronto, Canada</i>
17:25 - 17:35	O-082 Multiple factors contribute to aneurysm enhancement in intracranial vessel wall imaging: case series <i>Bart Cornelissen, University of Amsterdam, The Netherlands</i>	17:25 - 17:35	O-088 Between-center and between-country differences in outcome after aneurysmal subarachnoid hemorrhage in the SubArachnoid Hemorrhage International Trialists (SAHIT) repository <i>Simone Dijkland, The Netherlands</i>

17:35 - 17:45	O-083 Slow flow artefacts mimic wall enhancement in magnetic resonance vessel wall imaging: a phantom study Bart Cornelissen, University of Amsterdam, The Netherlands	17:35 - 17:45	O-089 Social cognition deficits after aneurysmal subarachnoid hemorrhage: relationship with behavioral changes and return to work Anne Marie Buunk, University Medical Center Groningen, The Netherlands
17:45 - 17:55	O-084 Cinematic rendering – A novel approach for preoperative photorealistic visualization of intracranial aneurysms and vascular anatomy Amr Abdulazim, University Hospital Mannheim, Germany	17:45 - 17:55	O-090 Impact of autosomal dominant polycystic kidney disease on the long term outcome of aneurysmal subarachnoid hemorrhage – a matched case control study Heidi Nurmonen, University of Eastern Finland, Finland
19:30 - 21:30	Networking Event		
JUNE 28, 2019 - FRIDAY			
	Main Hall		Parallel Hall
08:30 - 10:30	Session 16 - Neuromonitoring and neurocritical care	08:30 - 10:30	Session 17 - Microcirculatory disturbances after SAH
	Moderators: Jose Suarez, USA & Alejandro Rabinstein, USA		Moderators: Nikolaus Plesnila, Germany & Hans-Jakob Steiger, Germany
08:30 - 08:50	Electrophysiological monitoring after aneurysmal SAH Jan Claassen, Columbia University, USA	08:30 - 08:50	Relationship between spreading depolarizations and microcirculatory disturbances after SAH Bill Shuttleworth, University of New Mexico, USA
08:50 - 09:10	Brain monitoring after SAH: lessons learned Javier Provencio, University of Virginia School of Medicine, USA	08:50 - 09:10	Microthrombosis and arteriolar constrictions after SAH Hiroki Ohkuma, University of Hirosaki, Japan
09:10 - 09:20	O-091 Clinical manipulation may increase cortical spreading depolarization after aneurysmal subarachnoid hemorrhage Andrew Phillip Carlson, University of New Mexico, USA	09:10 - 09:20	O-099 Evaluation of the microcirculatory dysfunction by Arterial Spin Labeling (ASL) after subarachnoid hemorrhage Masato Naraoka, Mie University Graduate School of Medicine, Japan
09:20 - 09:30	O-092 Stable water-electrolyte balance by the requisite minimum supply of water and sodium yields good prognosis after aneurysmal subarachnoid hemorrhage Eiji Shikata, Tokushima University, Japan	09:20 - 09:30	O-100 Ultrasound perfusion imaging for bedside detection of cerebral vasospasm after aneurysmal subarachnoid hemorrhage Christian Fung, University of Bern, Germany
09:30 - 09:40	O-093 Early shunting in patients with aneurysmal subarachnoid hemorrhage: does the risk of cerebral vasospasms outweigh the risk of external ventricular drain-associated infections? Davide Marco Croci, University of Bern, Switzerland	09:30 - 09:40	O-101 Automated magnetic resonance perfusion imaging in the management of delayed cerebral ischemia: a pilot study Kasra Khatibi, University of California Los Angeles, USA
09:40 - 09:50	O-094 Invasive neuromonitoring to detect delayed cerebral ischemia after high-grade aneurysmal subarachnoid hemorrhage Michael Veldeman, RWTH Aachen University, Germany	09:40 - 09:50	O-102 Severity and extension of transcranial doppler vasospasm relate to delayed cerebral ischemia in subarachnoid hemorrhage patients Tommaso Zoerle, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Italy

09:50 - 10:00	O-095 Decreased odds for repeated vasospasm treatment in patients with aneurysmal subarachnoid hemorrhage after transitioning from neurosurgery-led care to a neurology-led multidisciplinary approach Stephanie Jarvis, Swedish Medical Center: Comprehensive Stroke Center, USA	09:50 - 10:00	O-103 Preventing cerebral vasospasm after aneurysmal subarachnoid hemorrhage with aggressive cisternal clot removal and nicardipine Nakao Ota, Sapporo Teishinkai Hospital, Japan
10:00 - 10:10	O-096 Impact of initial level-of-care admission in long-term clinical outcome of low-grade aneurysmal subarachnoid hemorrhage patients Laura Lull, Hospital Clinic Barcelona, Spain	10:00 - 10:10	O-104 Effects of nimodipine on blood pressure in patients with evolving vasospasms after aneurysmal subarachnoid hemorrhage Werner Zraggen, University of Bern, Switzerland
10:10- 10:20	O-097 Induced hypertension for DCI after subarachnoid hemorrhage: prospective quantification of treatment effect Miriam Weiss, RWTH Aachen University, Germany	10:10 - 10:20	O-105 Ultra-early and pre-interventional angiographic cerebral vasospasm after aneurysmal subarachnoid hemorrhage predicts early onset of delayed cerebral vasospasm, delayed cerebral ischemia, and poor outcome Serge Marbacher, Kantonsspital Aarau, Switzerland
10:20 - 10:30	O-098 ICU cockpit: precision medicine for the treatment of aneurysmal subarachnoid hemorrhage based on a multimodal neuromonitoring database Emanuela Keller, University Hospital Zurich, Switzerland	10:20 - 10:30	O-106 Characterization of cerebral blood flow (CBF) responses to KCl-induced cortical spreading depolarizations (CSD) in the acute phase of subarachnoid haemorrhage (SAH) in rats Catharina Conzen, Uniklinik RWTH Aachen, Germany
10:30 - 11:00	Coffee Break / Posters / Exhibitors at Exhibition Area		
11:00 - 12:40	Session 18 - Future perspectives in clinical SAH research		
	Moderators: Nima Etminan, Germany & Mervyn Vergouwen, The Netherlands		
11:00 - 11:15	Alternative study designs for studying the effect of interventions in patients with SAH – pros and cons Hester Lingsma, Erasmus MC, The Netherlands		
11:15 - 11:30	Summary update and the future of Common Data Elements in SAH research Jose Suarez, Johns Hopkins Hospital, USA		
11:30 - 11:45	Albumin in Subarachnoid Hemorrhage (ALISAH) Jose Suarez, Johns Hopkins Hospital, USA		
11:45 - 12:00	Interleukin-1 receptor antibodies for SAH (rationale and study status) Hiren Patel, University of Manchester, UK		

12:00 - 12:10	<p>O-107 Cerebrospinal fluid filtration in aneurysmal subarachnoid hemorrhage patients: Results from the PILLAR feasibility trial</p> <p>Christa Swisher, Duke University Medical Center, USA</p>		
12:10 - 12:20	<p>O-108 SFX-01 after Subarachnoid haemorrhage (SAS): A phase-II multi-centre randomised double-blinded placebo-controlled trial</p> <p>Ardalan Zolnourian, University Hospital Southampton, UK</p>		
12:20 - 12:30	<p>O-109 Establishing an aneurysm database for an unusually stable cohort of patients: the (Teesside Aneurysm Group) TAG project</p> <p>Dorina Roy, James Cook University Hospital, UK</p>		
12:30 - 12:40	<p>O-110 Developing a core outcome set for aneurysmal subarachnoid haemorrhage research</p> <p>Christopher Andersen, University of Oxford, UK</p>		
12:40 - 12:55	<p>Future of local pharmaceutical therapies for prevention and treatment of delayed cerebral ischemia.</p> <p>Hidetoshi Kasuya, Tokyo Women's Medical University, Japan</p>		
12:55 - 13:15	<p>Awards and closing ceremony</p>		