



# KUOPIO STROKE

SYMPOSIUM | JUNE 5–7, 2019

## PROGRAM – Updated 4.6.2019

### Wednesday, June 5

11:00- **Registration and coffee**

13:00-13:30 **Opening of symposium**

Pekka Jäkälä, Chair of the Organizing Committee  
Mikael von und zu Fraunberg, Neurocenter Finland

#### Afternoon session I: A global action against stroke

Chair: Pekka Jäkälä, Neurocenter, Kuopio University Hospital and Jukka Jolkkonen, Neurology, University of Eastern Finland

13:30-14:15 **International collaborative efforts in stroke research**

Julie Bernhardt, The Florey Institute of Neuroscience and Mental Health, Melbourne, Australia

14:15-15:00 Cell-based Therapie for Stroke and International Guidelines from the STEPS Conferences  
Sean Savitz, Institute for Stroke and Cerebrovascular Disease, UTHealth, Houston, TX, USA

15:00-15:30 **Coffee and exhibition**

#### Afternoon session II: From heat to hypercoagulation - Uncommon stroke risk factors and uncommon measures of prevention

Chair: Jukka Putaala, Department of Neurology, Neurocenter, Helsinki University Hospital

15:30-16:00 **New insights on hypercoagulation and ischemic stroke**

Bob Siegerink, Center for Stroke Research Berlin (CSB), Charité – Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health, Berlin, Germany

16:00-16:30 **Emerging risk factors for and secondary prevention after cerebral venous thrombosis**

Jonathan Coutinho, Department of Neurology, Academic Medical Centre, Amsterdam, The Netherlands

16:30-17:00 **Sauna bathing and prevention of stroke and cardiovascular disease**

Peter Willeit, Department of Neurology & Neurosurgery, Medical University of Innsbruck, Austria

18:00- **Kallavesi by boat, smoke sauna and local dinner**



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## Thursday, June 6

### Morning session I: Recanalization therapy - Sponsored by Stryker

Chair: Perttu Lindsberg, Department of Neurology, Neurocenter, Helsinki University Hospital

- 08:30-09:15      **Therapeutic windows of stroke thrombolysis**  
Götz Thomalla, The Universitätsklinikum Hamburg-Eppendorf (UKE), Hamburg, Germany
- 09:15-10:00      **The importance of the first pass, tips and tricks to achieve it**  
Marc Ribo, Stroke Unit, Department of Neurology, Vall d'Hebron University Hospital, Barcelona, Spain
- 10:00-10:30      **Coffee and exhibition**

### Morning session II: Intracranial bleeds

Chair: Timo Koivisto, Neurosurgery, KUH NeuroCenter and Atte Meretoja, Department of Neurology, Neurocenter, Helsinki University Hospital

- 10:30-11:00      **ICH - intracerebral hemorrhage**  
Atte Meretoja, Department of Neurology, Helsinki University Hospital, Helsinki, Finland
- 11:00-11:30      **Time line analysis of acute SAH care in a defined population**  
Timo Koivisto, Neurosurgery, KUH NeuroCenter, Finland
- 11:30-12:00      **Saccular (sIA) versus Fusiform (fIA) intracranial aneurysm and their association to Aortic aneurysm (AA)**  
Juha E Jääskeläinen, Neurosurgery, KUH NeuroCenter, Finland
- 12:00-13:00      **Lunch and exhibition**

### Afternoon session I: Stroke rehabilitation

Chair: Kauko Pitkänen, VetreaNeuron, Kuopio

- 13:00-13:30      **Patient-tailored treatment strategies in stroke**  
Friedhelm Hummel, Brain Mind Institute, Swiss Federal Institute of Technology, Geneva, Switzerland
- 13:30-14:00      **Web-based rehabilitation program for constraint induced movement therapy following stroke**  
Jane Burrige, School of Health Sciences, Faculty of Environmental and Life Sciences, University of Southampton, UK
- 14:00-14:30      **Brain-computer interface rehabilitation**  
Christop Guger, Ph.D, CEO, G.tec, Austria
- 14:30-15:00      **Coffee and exhibition**

### Afternoon session II: Stroke genetics

Chair: Juha E Jääskeläinen, Neurosurgery, KUH NeuroCenter

- 15:00-15:30      **Genomics of stroke**  
Arne Lindgren, Department of Clinical Sciences Lund, Neurology, Lund University, Lund, Sweden
- 15:30-16:00      **Genomics of intracranial aneurysms**  
Ynte Ruigrok, Department of Neurology and Neurosurgery, Brain Center Rudolf Magnus, University Medical Centre Utrecht, Utrecht, The Netherlands
- 16:00-16:30      **Genomics of brain arteriovenous malformations**  
Juhana Frösen, Neurosurgery, KUH NeuroCenter, Finland
- 19:00-22:00      **Banquet, Wanha Satama**



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# KUOPIO STROKE

SYMPOSIUM | JUNE 5 – 7, 2019

**Perjantai, 7.6. / Friday June 7**  
(in Finnish except the three first talks)

**Digitaaliset sovellukset AVH-kuntoutuksessa - VetreaNeuronin tukema**  
Puheenjohtaja/Chair: Kauko Pitkänen, VetreaNeuron, Kuopio

- 09:00-9:45 **The impact of health environment on post-stroke recovery**  
Julie Bernhardt, The Florey Institute of Neuroscience and Mental Health, Melbourne, Australia
- 09:45-10:15 **Wearable technology for home-based upper limb stroke rehabilitation: assessment and therapy**  
Jane Burridge, Professor of Restorative Neuroscience, School of Health Sciences, Faculty of Environmental and Life Sciences, University of Southampton
- 10:15-10:45 **Kahvitauko ja näyttely / Coffee and exhibition**
- 10:45-11:15 **MAGIC Pre-Commercial Procurement: Impact on Post Stroke Rehabilitation**  
Julie-Ann Walkden and Nicola Moran, Business Services Organisation (BSO), Belfast, Ireland
- 11:15-11:45 **ACTIVAGE – pelillistetty kotikuntoutuskonsepti**  
Mika Luimula, dos., FT, tutkimusvastaava, Turku AMK
- 11:45-12:15 **Miten motivaatiota ja yksilöllistä merkityksellisyyttä voidaan tukea avh-kuntoutuksessa?**  
Tuulikki Sjögren, FT, yliopistonlehtori, Jyväskylän yliopisto
- 12:15-13:15 **Lounas ja näyttely**
- 13:15-13:45 **Virtuaaliodellisuus aivoverenkiertohäiriöpotilaan kuntoutuksessa - Hoitajien kokemuksia virtuaalisesta kuntoutuksesta**  
Jenny Kareinen, aluepäällikkö, Koti- ja hoivapalvelut Hyvinvointia kotiin Oy
- 13:45-14:15 **Moniammatillinen etäkuntoutus aivoverenkiertohäiriön sairastaneille**  
Leena Korhonen, TtM (tohtorikoulutettava), Itä-Suomen yliopisto
- 14:15-14:45 **Musiikin vaikutus aivojen toipumiseen aivoinfarktin jälkeen**  
Aleksi Sihvonen, LT, Helsingin yliopisto
- 14:45-15:15 **Kahvitauko ja näyttely**
- 15:15-15:45 **Tanssi AVH-kuntoutuksessa**  
Hanna Pohjola, Itä-Suomen yliopisto, Kuopio, Finland
- 15:45-16:15 **Tanssiesitys**  
Suomen Pyörätuolitanssiiliitto ry
- 16:15- **Keskustelu ja tilaisuuden päätös**  
Kauko Pitkänen



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Friday, June 7

Workshops and lab visit

Selected people have received a letter of approval for the demos.

## Joint hands-on workshop I

### Endovascular thrombectomy, stents and embolization

**Time and place:** Friday 7.6.2019, Group I 8-10, Group II 10-12 and Group III 13-15, Hotel Scandic, Kuopio

#### English description

Hands on neuroendovascular workshop for mechanical thrombectomy on acute stroke. Haptic high fidelity simulators are utilized for training techniques such as clot retrieval and stenting. Participants work 2 hours in pairs under expert guidance.

#### Target audience

Neuroradiologists, neurosurgeons and neurologists specializing in endovascular neurointervention

**Participants** Maximum 12 (6 pairs)

**Simulator** Mentis Vist G5 (two sets) <https://www.mentice.com/vist-g5>

**Equipment** Stryker Ltd

#### Instructors

1. Petri Saari MD PhD KUH Neuroradiology, Chief physician
2. Antti Lindgren MD PhD KUH Neurosurgery

*2 pairs per one instructor*

#### Technical support

Jorma Greijer and Pieter Roels, Stryker Ltd



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## Joint hands-on workshop II

### Transcranial Doppler

**Time and place:** Friday 7.6.2019, at 9:00-12.00, Hotel Scandic, Kuopio

**Objectives:**

- provide participants with information on evidence-based indications for TCD in stroke
- introduce to TCD devices
- demonstrate basic TCD investigation
- train basics of TCD technique in guided hands-on groups
- demonstrated the performance of TCD bubble test (video, translated from Finnish)

**Program**

09:00-09:20 Welcome & introduction

09:20-09:40 Evidence-based indications for TCD in stroke

09:40-10:00 Performance of basic TCD examination & bubble test

10:00-10:30 Demonstration of TCD devices and basic TCD examination

10:30-12:00 Guided hands-on in groups (M1, BA, VA)

**Teachers:** Petra Ijäs, Risto Roine, Lauri Soinne

**Participants:** max. 18 persons (3 demonstrations, 6 persons/demonstration)

## Lab visit

### Robot-assisted rehabilitation and motion analysis in neurorehabilitation

**Time and place:** Friday 7.6.2019, at 10.30-12.15, in front of the Hotel Scandic (by bus)

**English description**

HUMEA laboratory features human motion capture facilities, versatile biosignal measurement systems and a collaborative robot arm. By combining robotics, motion capture and musculoskeletal modeling, new methods for upper limb rehabilitation are developed. Furthermore, motion capture is applied to analyse dance of both professional dancers and stroke survivors.

**Teacher:** Pasi Karjalainen, University of Eastern Finland

**Participants:** max. 30 persons

