

ESOC 2018

4th European Stroke Organisation Conference

16-18 May 2018 | Gothenburg, Sweden

ESO - The Voice of Stroke in Europe

Final Programme



www.eso-conference.com



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the ESOC 2018 App.

Join us in our efforts to reduce the
burden of stroke!



Take your participation in stroke science to the next level!

ESO membership offers full access to collegiate partnerships in a vibrant community facilitating exchanges of ideas and intellectual support across borders.

Become a member of ESO!

Some benefit highlights include amongst others:

- Reduced registration fee for ESOC and other ESO events
- Subscription to the *European Stroke Journal*
- Joint membership with WSO
- Monthly Newsletter
- ... and many more

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www.eso-stroke.org



ESOC 2018

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Welcome Letter

Dear Friends and Colleagues,

We are very excited to welcome you to the European Stroke Organisation Conference (ESOC2018).

ESOC 2018 will build on the enormous success of the last three ESO Conferences and continue to be Europe's foremost forum for discussing and disseminating the latest standards and news on stroke management and care.

We have received more than 1,800 abstracts from colleagues from more than 80 countries worldwide. Therefore, we can proudly announce that ESOC is now the largest stroke conference, attracting the interest of more stroke physicians from all over the globe than any other international conference. Due to the large number of papers on clinical trials submitted, we have added a third "Large Clinical Session" in order to accommodate the demand.

One of the highlights of the 2017 edition were the Allied Healthcare Sessions, which will be continued in 2018 in order to include all members of a dedicated stroke team to exchange their knowledge and know-how.

During ESOC 2018 we will partnership with our partner stroke society from India and design a dedicated European-Indian Stroke Session where common strategies and regional differences will be discussed.

The latest ESO guidelines will continue to have a dedicated session in order to share them with our members for critical inputs and update the Stroke Community on the ESO Stroke Care Standards.

At ESOC 2018 the "European Action Plan 2018-2030" will be presented building on the experience and the format of the previous Helsingborg Declarations. This document will be written by ESO in cooperation with the patient organisation Stroke Alliance for Europe (SAFE) and members of WHO Europe.

We are looking forward to welcoming you in the city of Gothenburg, located on the west coast of Sweden, at the outlet of the Göta river. Gothenburg, once the center of the Swedish ship-building industry, has turned into a diverse and lively city full of Swedish design, food and culture. Offering both land and sea, city and nature, cobbled streets and industrial buildings revived to modern galleries.

Yours,



**VALERIA
CASO**

*President, European
Stroke Organisation*



**TURGUT
TATLISUMAK**

*Chair of the Local
Committee*

Committees

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Kennedy Lees, *UK, Past President*

Bart van der Worp, *The Netherlands, President Elect*

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Blanca Fuentes, *Spain, Education Committee*

Jörg Glahn, *Germany, AHC Committee*

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Finance Committee

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Kennedy Lees, *UK*

Valeria Caso, *Italy*

About ESO

The European Stroke Organisation (ESO) is a pan-European society of stroke researchers and physicians, national and regional stroke societies and lay organisations that was founded in December 2007. The ESO is an NGO comprised of individual and organisational members.

The aim of the ESO is to reduce the burden of stroke by changing the way that stroke is viewed and treated. This can only be achieved by professional and public education, and by making institutional changes.

ESO serves as the voice of stroke in Europe, harmonising stroke management across the whole of Europe and taking action to reduce the burden of stroke regionally and globally.

MISSION

ESO's major objective is to improve stroke care in Europe by providing medical education to healthcare professionals and the lay public in Europe. By offering best practice approaches, ESO's goal is to harmonise stroke management in Europe. ESO is dedicated to the following purposes:

- To promote awareness, management, teaching and research in all aspects of stroke;
- To develop and promote public policies to reduce the number of deaths by stroke and to improve the care of stroke victims and the quality of life of stroke victims.
- To reduce the burden of stroke throughout Europe
- To develop and promote professional and public education;
- To develop and promote other appropriate activities such as fundraising and prevention programmes;
- To develop, promote, and coordinate international teaching programmes through national/regional organisations;
- To advise and guide on fundraising skills in order to enable national foundations and societies to finance a greater level and range of activities;
- To foster the development of an international communications system by encouraging the regional activities of organisations, stroke networks, foundations and organisations, as they operate within the goals and objectives of the organisation.



EUROPEAN STROKE
ORGANISATION



MEETINGS

EUROPEAN STROKE ORGANISATION CONFERENCE (ESOC)

ESO organises the annual European Stroke Organisation Conference. Alongside the latest clinical trial results and discussion of their implications, the programme includes a comprehensive series of keynote lectures, symposia, teaching courses and workshops, covering the entire field of stroke management, prevention and recovery.

EUROPEAN STROKE SCIENCE WORKSHOP

Biennially, ESO runs the European Stroke Science Workshop on cutting edge clinical and research aspects of stroke, inviting a limited number of renowned stroke specialists and some younger colleagues. The next workshop will take place in 2019.

ESO – KAROLINSKA STROKE UPDATE CONFERENCE

The ESO-Karolinska Stroke Update Conference is organised in Stockholm, Sweden every second year. This conference offers a place for stroke professionals to discuss implementation of new research into guidelines and clinical routine.

The next Karolinska Stroke Update Conference will take place 11-13 November 2018. www.eso-karolinska.org

STROKE SUMMER SCHOOL

The ESO Stroke Summer School is organised for ESO each year by a team of stroke physicians in a European city. During one week, stroke specialists from Europe provide their expert knowledge to young physicians with a major interest in cerebrovascular diseases. The 2018 ESO Stroke Summer School will take place in Berlin, Germany, from 10-14 September.

STROKE WINTER SCHOOL

ESO, together with ESMINT and ESNR, offers a Stroke Winter School for young stroke physicians and neuroradiologists on the topic of acute interdisciplinary stroke treatment. The goal of this course is to enhance interdisciplinary management of patients with acute ischaemic stroke in Europe. A series of concentrated high-quality teaching sessions and courses is offered, including plenum sessions, discussions and technical training.

In 2019 the ESO Stroke Winter School will take place in Bern from 29 January – 1 February 2019.

EDUCATION

GUIDELINES IN STROKE MANAGEMENT

The ESO guidelines aim to present all the relevant evidence on a particular clinical issue in order to help physicians in everyday clinical medical decision-making. ESO prepares and promotes a range of guidelines on aspects of stroke management according to rigorous principles, and contributes to stroke aspects of sister organisations' guidelines. Published guidelines can be found on the ESO website. ESO also has an app for mobile devices making the ESO guidelines available to all users worldwide.

MASTER PROGRAMME

The Danube University, Krems, Austria, offers a postgraduate Master Programme in Stroke Medicine, which is part of the educational programme of ESO. The programme is tailored toward neurologists and stroke physicians planning to gain the practical knowledge and scientific background to participate in clinical research and networking. The programme enjoys the support of the World Stroke Organisation. Attendance is part-time (2 weeks per semester) plus 4 weeks practical and a Master's thesis. ESO scholarships are available.

ESO DEPARTMENT -TO-DEPARTMENT VISIT PROGRAMME

The programme is offered to young physicians and scientists (<40) to support a short visit of 1 week to a European department or laboratory, or as contribution to a longer visit. ESO supports several young physicians/scientists annually to facilitate insight into international stroke departments and establish contacts with centres with potential for future research and job opportunities.



PROJECTS

STROKE UNIT AND STROKE CENTRE CERTIFICATION

The aim of the Stroke Unit Committee is to improve care for patients in Europe who have suffered a stroke by the use of systematic and comprehensive audits of stroke units and stroke centres to improve patients' management and outcomes. This aim will be achieved by certification of European stroke units and stroke centres.

Be part of this important ESO Mission. www.eso-certification.org

ANGELS INITIATIVE

The mission of ANGELS is to increase the number of stroke-ready hospitals and to continue optimising the standard of treatment in all existing stroke centres.

The first step in this initiative is to build a community of 1500 hospitals by May 2019. www.eso-stroke.org/angels-initiative/.

RES-Q

RES-Q is a registry of stroke care quality developed under the ESO to help physicians monitor and improve stroke care quality. RES-Q collects 24 variables and serves as the first step to improving stroke care. Learn more and sign up at: www.qualityregistry.eu.

ESO – EAST “ENHANCING AND ACCELERATING STROKE TREATMENT”

The aim of the ESO-EAST project is to establish a 5-year collaboration with selected physicians from Eastern countries to implement stroke care in Eastern Europe. ESO-EAST was instrumental in the development of RES-Q.

ACTION PLAN FOR STROKE IN EUROPE 2018-2030

In November 2016, ESO initiated the updating of the 2006 Helsingborg Declaration on stroke strategies and targets in Europe, in cooperation with the patient organisation Stroke Alliance for Europe (SAFE). The Helsingborg Declarations were very useful for healthcare decision makers as sources of reference for setting up and planning European national stroke services.

In 2016, the declaration was renamed to “Action Plan for Stroke in Europe 2018 to 2030” in order to better define the intention of the document. The physical meeting to discuss and finalize the document has taken place in March 2018 and the 2018 format included: a review of the 2006 target results, an analysis of what did and did not work, a review of the current state of the art in stroke services, proposals for 2030 targets, and the identification of research priorities.

Following ESOC 2018, the final version will be published and sent to a high impact journal for publication.

PUBLICATIONS

EUROPEAN STROKE JOURNAL (ESJ)

The European Stroke Journal (ESJ) is a fully peer-reviewed Journal and owned by ESO. ESJ is published 4 times a year (March, June, September and December). Subscription of the European Stroke Journal is included in the ESO membership fee. It covers clinical stroke research from all fields, including clinical trials, epidemiology, primary and secondary prevention, diagnosis, acute and post-acute management, guidelines, translation of experimental findings into clinical practice, rehabilitation, organisation of stroke care, and societal impact. It is open to authors from all relevant medical and health professions. Article types include review articles, original research, protocols, guidelines, editorials and letters to the Editor.

ESO MEMBER NEWSLETTER

The ESO Member Newsletter is a digital publication highlighting activities and events of the ESO and its members. It is distributed monthly. All members are encouraged to submit content.

BLOG - THE VOICE OF STROKE IN EUROPE

The ESO blog, added to the ESO homepage in 2017, provides a forum for the most up to date news and advocacy from ESO and its partners. <http://eso-stroke.org/news/> Submissions are encouraged from all members and ESO partners.

For more updated information on ESO please visit our website at

→ www.eso-stroke.org



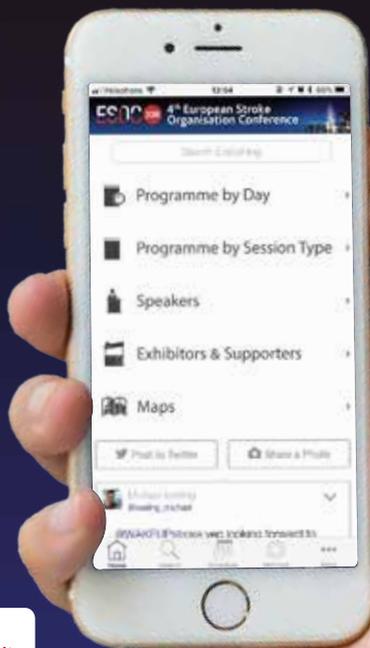
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Search for “**ESOC 2018**” in the app store or scan the QR code.

App features include:

- Voting
- Ask the Speaker
- E-Poster Catalogue
- Evaluations
- Scientific Programme
- Getting around in Gothenburg



Programme Timetable

PRE-CONFERENCE DAY - TUESDAY, 15 MAY 2018

Hall J1

18:00 - 21:30 Building a European Research "Network of Networks" - the ESO Trial Alliance

WEDNESDAY, 16 MAY 2018

	Hall C	Hall E1	Hall E4	Hall H
08:30		Service Organisation	Prevention Non Trials	Extracranial and Intracranial Large Vessel Disease
10:00	Coffee Break, Exhibition, Poster Viewing			
10:30	Official Welcome & Large Clinical Trials  			
12:00	Lunch Break, Exhibition, Poster Viewing			
12:45		Industry Supported Session*	Industry Supported Session*	Industry Supported Session*
14:15	Short Break			
14:30	Presidential Symposium - Awards & Trials  			
16:00	Coffee Break, Exhibition, Poster Viewing			
16:30	Endovascular Treatment <i>Joint ESO - ESMINT session</i> 	Enriched Environments in Stroke Rehabilitation	Prognosis and Outcome	AF and Cardioembolic Stroke
18:00	Welcome Reception, Poster Viewing and E-Poster Discussion Sessions (Exhibition Area)			

*Not included in main event CME/CPD credit



LEGEND

Scientific Session	ESO General Assembly	Networking/Posters Event
General Interest Session	Industry Supported Session*	Scientific Communications (Oral Abstract Presentation Session)
Workshop/Teaching Course	Allied Health Care Session	

Hall K1	Hall K2	Hall K3	Hall J1	Hall J2
Reperfusion I	Intracerebral Haemorrhage (I)	Epidemiology	Rare Causes and Stroke in the Young	Young Stroke Physicians & Researchers
Industry Supported Session*		Industry Supported Session*		
Neuropsychiatric Complications of Stroke	Prevention Trials	Women and Stroke: Women Initiative for Stroke in Europe	Genetics, Omics and Biomarkers	Teaching Course: Stroke Unit Care

Programme Timetable

THURSDAY, 17 MAY 2018

	Hall C	Hall E1	Hall E4	Hall H
08:30	Future Directions on Thrombolysis	Aphasia Treatment in Stroke Patients; Which Parameters are Effective?	Large Vessel Disease	Small Vessel Disease
10:00	Coffee Break, Exhibition, Poster Viewing			
10:30	Controversies in Stroke 	Post-Stroke Dysphagia – from Pathophysiology to Clinical Consideration	Sex Influences and Stroke	Stroke Genetics & Omics
12:00	Lunch Break, Exhibition, Poster Viewing			
12:45		Industry Supported Session*		Industry Supported Session*
14:15	Short Break			
14:30	Stroke Prevention & Epidemiology	Acute Non Reperfusion Trials	Cerebral Small Vessel Disease	Haemorrhagic Stroke
16:00	Coffee Break, Exhibition, Poster Viewing			
16:30	Stroke and Heart <i>Joint ESO - ESC Session</i>	Pathophysiology and Mechanisms	Imaging	Rare Causes of Stroke 
18:00	Short Break			
18:10	Poster Networking & E-Poster Discussion Sessions (Poster Area)			

*Not included in main event CME/CPD credit



LEGEND

Scientific Session	ESO General Assembly	Networking/Posters Event
General Interest Session	Industry Supported Session*	Scientific Communications (Oral Abstract Presentation Session)
Workshop/Teaching Course	Allied Health Care Session	

Hall K1	Hall K2	Hall K3	Hall J1	Hall J2
Rehabilitation and Recovery	Stroke in the Young 	Imaging: Ischemic stroke – ICH - Carotid <i>Joint ESO - ESNR Session</i>	Workshop: Hands-On Neurosonology- <i>Joint ESO - ESNCH Workshop-PART 1</i> 	Teaching Course: Embolic Causes of Stroke
Risk Factors in Stroke	Global Perspectives of Stroke <i>Joint ESO - WSO Session</i> 	Reperfusion II	Workshop: Hands-On Neurosonology- <i>Joint ESO - ESNCH Workshop-PART 2</i> 	Teaching Course: Cerebral Venous Thrombosis
Industry Supported Session*	Industry Supported Session*	Industry Supported Session*		
Action Plan for Stroke in Europe <i>Joint ESO - SAFE Session</i> 	Geographic Differences in Acute Stroke Care <i>Joint ESO - ISA Session</i> 	Complications of Stroke	Workshop: Neurointervention <i>Joint ESO - ESMINT - ESNR Workshop (I)</i> 	Structured Case Presentation: Diagnosis of Monogenic Stroke. Hints & Pitfalls
Implementation of Stroke Care Across Europe <i>Joint ESO - SAFE Session</i>	Vascular Cognitive Impairment 	Reperfusion III	Workshop: Neurointervention <i>Joint ESO-ESMINT-ESNR Workshop (2) Repeat Session</i> 	Structured Case Presentation: Acute Management
ESO General Assembly	Poster Networking & E-Poster Discussion Sessions (Poster Area)			

Programme Timetable

FRIDAY, 18 MAY 2018

	Hall C	Hall E1	Hall E4	Hall H
08:30	Intracerebral Haemorrhage (II) <i>Joint ESO - SSA Session</i>	Palliative Care and Ethical Considerations in Stroke	Teaching Course: Stroke in Systemic Diseases 	Hypertension – at the Root of Stroke 
10:00	Coffee Break, Exhibition, E-Poster Viewing			
10:30	Stroke and Related Conditions <i>Joint ESO - EAN Session</i>	Mobility and Life After Stroke	Teaching Course: How to improve My Skills in Stroke Research? 	SAH and Vascular Malformations <i>Joint ESO - EANS session</i>
12:00	Lunch Break, Exhibition, E-Poster Viewing			
12:30	Large Clinical Trials 2 (12:45 - 14:05)			
14:05	Short Break			
14:15		Fundamentals of Stroke Care Symposium (14:15 - 16:00)	Teaching Course: Challenges in Diagnosis and Management of Stroke in Pregnancy 	Vascular Cognitive Impairment

*Not included in main event CME/CPD credit



LEGEND

Scientific Session	ESO General Assembly	Networking/Posters Event
General Interest Session	Industry Supported Session*	Scientific Communications (Oral Abstract Presentation Session)
Workshop/Teaching Course	Allied Health Care Session	

Hall K1	Hall K2	Hall K3	Hall J1	Hall J2
ESO Guidelines Session 2018	Reperfusion Trials	Stroke Immunology & Experimental Stroke	Workshop: Simulation Workshop on Stroke Diagnostics and Treatment (focused on IV tPA application) 	Structured Case Presentation: Stroke Prevention
Reperfusion IV	Late Breaking	The Challenge of ICH - a High Burden Disease with Controversial Management <i>Joint ESO - IASO Session</i>	Workshop: Simulation Workshop on Stroke Treatment Logistics (focused on logistics of IV tPA application) 	Teaching Course: ESO Stroke Unit Certification
		Educational Session on Embolic Stroke of Undetermined Source (ESUS) - EBAC Accredited Educational Programme*		
Rehabilitation and Robotics		New Perspectives on Neurovascular Ultrasound <i>Joint ESO - ESNCH Session</i>	Workshop: Simulation Workshop on Stroke Endovascular Treatment Lab (Focused on EV Treatment) 	Teaching Course: Secondary Stroke Prevention



JOIN THE CONVERSATION

#ESOC2018

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Live on Social Media

ESOC 2018

**4th European Stroke
Organisation Conference**

ESO - The Voice of Stroke in Europe



www.eso-conference.org

General Information

CONFERENCE VENUE

The Swedish Exhibition & Congress Centre

Entrance 8

Mässans Gata/Korsvägen,
412 94 Göteborg, Sweden
www.svenskamassan.se

	REGISTRATION DESK HOURS	EXHIBITION HOURS
Tuesday, 15 May	08:00 - 19:30	
Wednesday, 16 May	07:30 - 19:30	09:30 - 19:15 <i>(end of Welcome Reception)</i>
Thursday, 17 May	08:00 - 19:30	09:30 - 17:00
Friday, 18 May	08:00 - 15:45	09:30 - 13:30

NAME BADGES

Upon registration, you will receive your name badge. You are kindly requested to wear your badge during all Conference sessions and events.

CME/CPD CERTIFICATE OF ATTENDANCE

CME/CPD certificate of attendance will be available for participants shortly after the Conference. Your certificate will be delivered electronically after completing the educational evaluation procedure online via the link you will receive following the Conference.

WIFI & INTERNET

Free WiFi will be available at the Conference. Please be aware that public WiFi capacity is always limited and therefore limited to email and web browsing activity.

WiFi Network: **ESOC2018** | Password: **esoc2018**

Internet and email facilities will be available in the exhibition area during the exhibition opening hours. Please be considerate of fellow participants when using these facilities.

REFRESHMENTS

Coffee and lunch will be served in the exhibition area at the times indicated in the Scientific Programme. A light snack will be served during the poster networking sessions.

→ CONFERENCE ABSTRACTS

ESOC 2018 abstracts will be published in the European Stroke Journal (ESJ). To access the abstracts please visit http://journals.sagepub.com/toc/esoa/3/1_suppl

👤 NETWORKING

Welcome Reception

All registered participants are invited to join us for the Welcome Reception, which will take place in the Exhibition & Poster Areas on Wednesday, 16 May from 18:00. Light refreshments will be served.

Poster Networking

Join us in the poster area for networking and E-Poster discussions occurring on the evenings of the 16th and 17th.

📱 MOBILE APPLICATION

Install the ESOC 2018 interactive mobile App to your smartphone and portable devices to access all the Conference information.

- See the overview of sessions, speakers and exhibitors
- Receive real-time updates
- Bookmark the sessions you wish to attend

Download the ESOC 2018 App now to enhance your conference experience!



→ RECOGNITION, ACKNOWLEDGEMENTS & INDUSTRY SUPPORT

In accordance with compliance regulations, Industry supporting the Conference will be acknowledged separately from the Scientific Programme. Industry Information will appear at the back of the book, under the section RECOGNITION, ACKNOWLEDGEMENTS AND INDUSTRY SUPPORT.





PHOTOGRAPHY & RECORDING PRIVILEGES

Photographs, video recording or audio recording are not permitted in the scientific sessions at this conference unless otherwise authorised by the Conference Planning Group.



GUEST ATTENDANCE POLICY

All event activities (including educational sessions, meal functions, exhibit hall, etc.) are exclusively reserved for registered attendees. Non-registered guests (including children, family members, colleagues, etc.) are not allowed in any of the event areas. Badges provided at registration are required for entrance into all functions and will be strictly enforced.



CARING FOR THE ENVIRONMENT

ESOC 2018 is devoted to promoting environmentally friendly practice. Our responsibility to our Conference participants, staff, environment and society is paramount in all of our decisions, policies and practices. We continue to learn and strive to integrate new practices all the time. Here are a few of the practices we have undertaken for this Conference:

- **Reducing print** – Abstracts are published as an online supplement as opposed to a printed book. New to ESOC 2018 - we are not distributing bags packed with inserts.
- **Recycling onsite** – Please recycle paper, plastic and glass items.
- **Meeting Bags** – The bags are manufactured with natural, eco-friendly fabrics. In order to reduce the impact on the environment, a limited number of conference bags will be available to participants on a first come first serve basis.

Awards

The ESO Conference 2018 Planning Group would like to congratulate the winners of the Presidential Award and ESO Scientific Excellence Award.



ESO PRESIDENTIAL AWARD 2018

Werner Hacke

M.D., Ph.D. D. Sc. (hon. mult.) FAHA FESC

- Senior Professor of Neurology University of Heidelberg
- 1987 - 2014: Professor and Chairman of the Department of Neurology, University of Heidelberg, *Germany*
- Main interests: Stroke and critical care neurology
- Pioneer hyperacute stroke treatment and i.v. thrombolysis for acute stroke
- Author of over 500 original articles listed in the Science Citation Index (h-Index 103)
- Founding President of the European Stroke Organisation ESO
- Currently President of the World Stroke Organization - WSO



ESO SCIENTIFIC EXCELLENCE AWARD 2018

Rustam Al-Shahi Salman

MA PhD FHEA FRCPE FESO

- Professor of Clinical Neurology, Centre for Clinical Brain Sciences, The University of Edinburgh, *UK*
- Honorary consultant neurologist NHS Lothian, Edinburgh, *UK*
- Research expertise: stroke, intracerebral haemorrhage, aneurysms, cavernous malformations, arteriovenous malformations
- Leads the Research to Understand Stroke due to Haemorrhage programme (RUSH): www.RUSH.ed.ac.uk @BleedingStroke



YOUNG INVESTIGATORS AWARD

The ESO Conference 2018 Planning Group chose the following abstract presenters as Young Investigators Award winners:

David Seiffge, *Switzerland / United Kingdom*

Shufan Huo, *Germany*

Rhea Tan, *United Kingdom*

Erik Lindgren, *Sweden*

Steffen Tiedt, *Germany*

The ESO Conference 2018 Planning Group chose the following abstract presenters as Young Investigators to receive a commendation letter:

Sophie van den Berg, *The Netherlands*

Lana Fani, *The Netherlands*

Esther van Leijsen, *The Netherlands*

Alan Cameron, *United Kingdom*

Oliver Ziff, *United Kingdom*

CME Accreditation

COMMITMENT TO THE HIGHEST STANDARDS IN CME/CPD

Kenes is committed to being a valuable and knowledgeable partner in the design and delivery of educationally strong, independent, transparent, and effective CME/CPD programmes. Kenes is a proud member of the Good CME Practice Group (gCMEp), a member organisation contributing to improving health outcomes by:



- Championing best practice in CME/CPD
- Maintaining and improving standards
- Mentoring and educating
- Working in collaboration with critical stakeholders

Membership in the Good CME Practice Group illustrates Kenes commitment to high standards and knowledgeable partnership with its clients in the design and delivery of medical events.

EDUCATIONAL OBJECTIVES

After participating in this educational event, participants should be able to:

- Address individual needs in compliance with their Continuous Professional Development (CPD) plan.
- Identify and discuss new developments and established strategies in stroke prevention.
- Discuss the diagnosis and management of retinal artery occlusion.
- Review the risk factors for delirium and cognitive impairment after stroke.
- Discuss complications of stroke.
- Analyse newest achievements in Neurology and their application to evidence-based clinical practice in stroke management.
- Enhance the discussion and exchange among international neurologists and researchers as a means of further developing individual expertise.
- Discuss new research outcomes in the management of stroke.



TARGET AUDIENCE

The 4th European Stroke Organisation Conference (ESOC 2018) is a global meeting place for physicians, nurses, nurse practitioners, physician assistants, physical therapists, and other healthcare professionals in the field of stroke and its sub-specialties. Because of the diverse, clinically focused educational offering, participants are able to tailor the curriculum to meet the needs of international clinicians of all levels of experience. The target audience includes international, regional and national clinicians' healthcare professionals in the field of stroke and its sub-specialties.

ACCREDITATION STATEMENT AND CREDIT DESIGNATION

European Accreditation Council for Continuing Medical Education (UEMS/EACCME)

The 4th European Stroke Organisation Conference (ESOC 2018) is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists.

The EACCME is an institution of the European Union of Medical Specialists (UEMS): www.uems.net

The 4th European Stroke Organisation Conference (ESOC 2018) is designated for a maximum of, or up to, 14 European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

American Medical Association (AMA)

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of *AMA PRA Category 1 Credits*[™].

Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

Royal College of Physicians and Surgeons of Canada

Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada. For more information, visit: www.royalcollege.ca.

CREDIT BREAKDOWN

Each participant should claim only those hours of credit that he/she actually spent in the educational activity.

DAY	MAXIMUM CREDITS
Wednesday, May 16, 2018	4
Thursday, May 17, 2018	6
Friday, May 18, 2018	4
Total Credits:	14

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 - Visit the CME/CPD Accreditation page on the event website
 - Follow the link in the email sent at the end of the event
2. Complete the anonymous online evaluation
3. Complete the credit claim form and submit
4. The CME/CPD certificate will be available for download; fill-in and retain for your personal records

Kindly note that the ESOC 2018 online evaluation will be active on the last day of the meeting. You will then be able to access it and claim your CME/CPD certificate.



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In accordance with CME/CPD accreditation criteria and standards for commercial support to ensure balance, independence, objectivity, and scientific rigor, those in control of the educational content must disclose potential or actual conflicts of interest. Disclosure information is evaluated and conflicts of interest resolved. Disclosure is made available to participants prior to the activity. Participants will be asked on the evaluation to assess the objectivity and independence of the event.

Disclosure information is available on the event website and also posted on the notice board in the registration area.

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This event is supported, in part, by funding from industry. All support is managed in strict accordance with CME/CPD accreditation criteria and standards for commercial support. Appropriate acknowledgement of all supporting organisations is made in the programme guide, on the event website, and with signage during the event.

- View a list of all industry supporters on page 328
- View detailed programmes for all Industry Sessions on page 332



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Information for Presenters

SPEAKERS' READY ROOM

Tuesday, 15 May	14:00 - 19:30
Wednesday, 16 May	07:30 - 19:30
Thursday, 17 May	08:00 - 19:00
Friday, 18 May	08:00 - 15:45

ORAL PRESENTATIONS

Data presentation: If using a PowerPoint presentation (or any other PC based application), please note you need to bring it on USB Memory stick and load it on one of the Conference computers in the Speakers' Ready Room at least 1 hour before the start of the session. Please note that the Conference computers in the session halls are being supplied with Office 2013.

If combining video films with PowerPoint, please make sure to check it in the session hall where your lecture is taking place during a coffee or lunch break prior to your session, at least 30 minutes before the start of the session - **even after checking it in the Speakers' Ready Room.**

Alternatively, you may supply your own laptop computer. In such a case please confirm that it has a HDMI socket for external signal and come to check it first in the Speakers' Ready Room as soon as you arrive and later on in the session hall where your lecture is taking place during the coffee or lunch break prior to your session, at least 30 minutes before the start of the session.

Important note for Macintosh users:

In order to use MAC presentations on a PC compatible computer please note that you need to prepare it according to the instructions below, before bringing it to the Speakers' Ready Room:

- Use a common font, such as Arial, Times New Roman, Verdana etc. (special fonts might be changed to a default font on a PowerPoint based PC).
- Insert pictures as JPG files (and not TIF, PNG or PICT - these images will not be visible on a PowerPoint based PC).

Alternatively, you may use your own Macintosh laptop computer. In such a case please confirm you provide it with a HDMI adaptor for external signal, advise the operators in the Speakers' Ready Room about it as soon as you arrive and later on test it in the session hall where your lecture is taking place during the coffee or lunch break prior to your session, at least 30 minutes before the start of the session.



PLEASE NOTE: IN COMPLIANCE WITH EACCME REQUIREMENTS ALL SPEAKERS ARE REQUESTED TO INCLUDE A SLIDE DISCLOSING CONFLICTS OF INTEREST AT THE BEGINNING OF THEIR PRESENTATION.

Poster Presentations

POSTER BOARDS

The Poster Presentations are an important part of the scientific programme and an invaluable opportunity for exchange of ideas and update on new research. The main opportunity for poster viewing and discussion is during the lunch and coffee breaks and formal poster viewing networking each day. Authors are requested to stand by their poster during the coffee breaks to answer questions on the day of their presentation.

Posters will be on display on the following days:

- Poster Shift 1 - Wednesday, 16 May
- Poster Shift 2 - Thursday, 17 May

Presenters are able to set up their posters from 08:00 on their allocated date. Posters should be removed by 19:15 at the conclusion of the Poster Session.

The posters from each shift will be on display all day with formal poster viewing networking and E-Poster discussions occurring each evening.

All poster boards will be situated in the Poster Area.

The organisers cannot be responsible for posters not removed by the above stated time.

Please refer to the scientific programme or the Conference App for the poster **board number** on which you should display your poster.



POSTER BOARD OVERVIEW

Poster Shift 1 – Wednesday, 16 May	Board Number
APHASIA, NEGLECT AND OTHER CORTICAL DEFICITS	1-9
CLINICAL TRIAL RESULTS – ACUTE MANAGEMENT – NEITHER THROMBOLYSIS NOR THROMBECTOMY	10-21
CLINICAL TRIAL RESULTS – ACUTE MANAGEMENT – THROMBOLYSIS OR THROMBECTOMY	22-33
DIAGNOSIS/INVESTIGATION OF STROKE ETIOLOGY	34-86
EPIDEMIOLOGY OF STROKE	87-119
EXPERIMENTAL/TRANSLATIONAL MEDICINE	120-152
GENETICS, ‘OMICS AND BIOMARKERS	153-167
HYPERACUTE MANAGEMENT – EXCLUDING CLINICAL TRIAL RESULTS	168-220
NEUROINTERVENTION – EXCLUDING CLINICAL TRIAL RESULTS	221-287
ONGOING TRIALS	288-342
PATHOPHYSIOLOGY OF STROKE	343-365
RISK FACTORS FOR STROKE	366-402
SAH, ANEURYSMS AND VASCULAR MALFORMATIONS	403-428
SERVICE ORGANISATION	429-489
SYSTEMATIC REVIEW AND META-ANALYSIS	490-525
THROMBOLYSIS – EXCLUDING CLINICAL TRIAL RESULTS	526-563

Poster Shift 2 – Thursday, 17 May	Board Number
ATRIAL FIBRILLATION, CARDIOEMBOLISM & HEART-BRAIN INTERACTIONS	1-55
CLINICAL TRIAL RESULTS – PREVENTION	56-69
CLINICAL TRIAL RESULTS – REHABILITATION & RECOVERY	70-97
COGNITION AND VASCULAR COGNITIVE IMPAIRMENT	98-122
IMAGING – HYPERACUTE	123-158
IMAGING – NON ACUTE INCLUDING NEUROSONOLOGY	159-203
INTRACEREBRAL HAEMORRHAGE	204-262
NURSING, ALLIED HEALTH PROFESSIONALS AND CARERS	263-288
PREVENTION – EXCLUDING CLINICAL TRIAL RESULTS	289-322
PROGNOSIS AND OUTCOME AFTER STROKE	323-445
RARE CAUSES, STROKE IN THE YOUNG	446-487
REHABILITATION AND RECOVERY – EXCLUDING CLINICAL TRIAL RESULTS	488-545
SMALL VESSEL DISEASE	546-576
WOMEN AND STROKE	577-589



E-POSTER STATIONS

View the ESOC 2018 E-Posters in the E-Poster stations located at the Poster Area. E-Poster stations combine all the advantages of a paper poster while being totally digital. This is an innovative way to view many of the accepted poster presentations. All poster presenters were provided with the opportunity to upload their printed poster to this digital platform. The E-Posters are available for viewing throughout the conference in accordance with the exhibition hours.

E-Poster Viewing abstracts will have no specific presentation date and time.

E-POSTER DISCUSSIONS

The E-Poster Discussion Sessions are discussion groups around specially selected topics. Parallel E-Poster presentations will be given at the E-Poster stations on May 16 and 17. All participants are invited to the E-Poster Stations to hear the short presentations and to ask questions. Each E-Poster Discussion Session will be guided by one convenor.

E-Poster Discussion presenters have each been allocated 5 minutes to present their E-Poster, plus 3 minutes for discussion at the E-Poster screens. Presenters should be at the E-Poster stations 10 minutes before the start of the E-Poster Discussion Session.

Wednesday, 16 May

18:15 - 19:15

E-Poster Discussion Session 01	EPIDEMIOLOGY	E-Poster Station 1
E-Poster Discussion Session 02	ACUTE NON- REPERFUSION	E-Poster Station 2
E-Poster Discussion Session 03	AF AND CARDIOEMBOLIC STROKE	E-Poster Station 3
E-Poster Discussion Session 04	CLINICAL TRIALS REPERFUSION	E-Poster Station 4
E-Poster Discussion Session 05	STROKE PROGNOSIS AND OUTCOME 1	E-Poster Station 5
E-Poster Discussion Session 06	PREVENTION AND RISK FACTORS	E-Poster Station 6
E-Poster Discussion Session 07	REHABILITATION	E-Poster Station 7

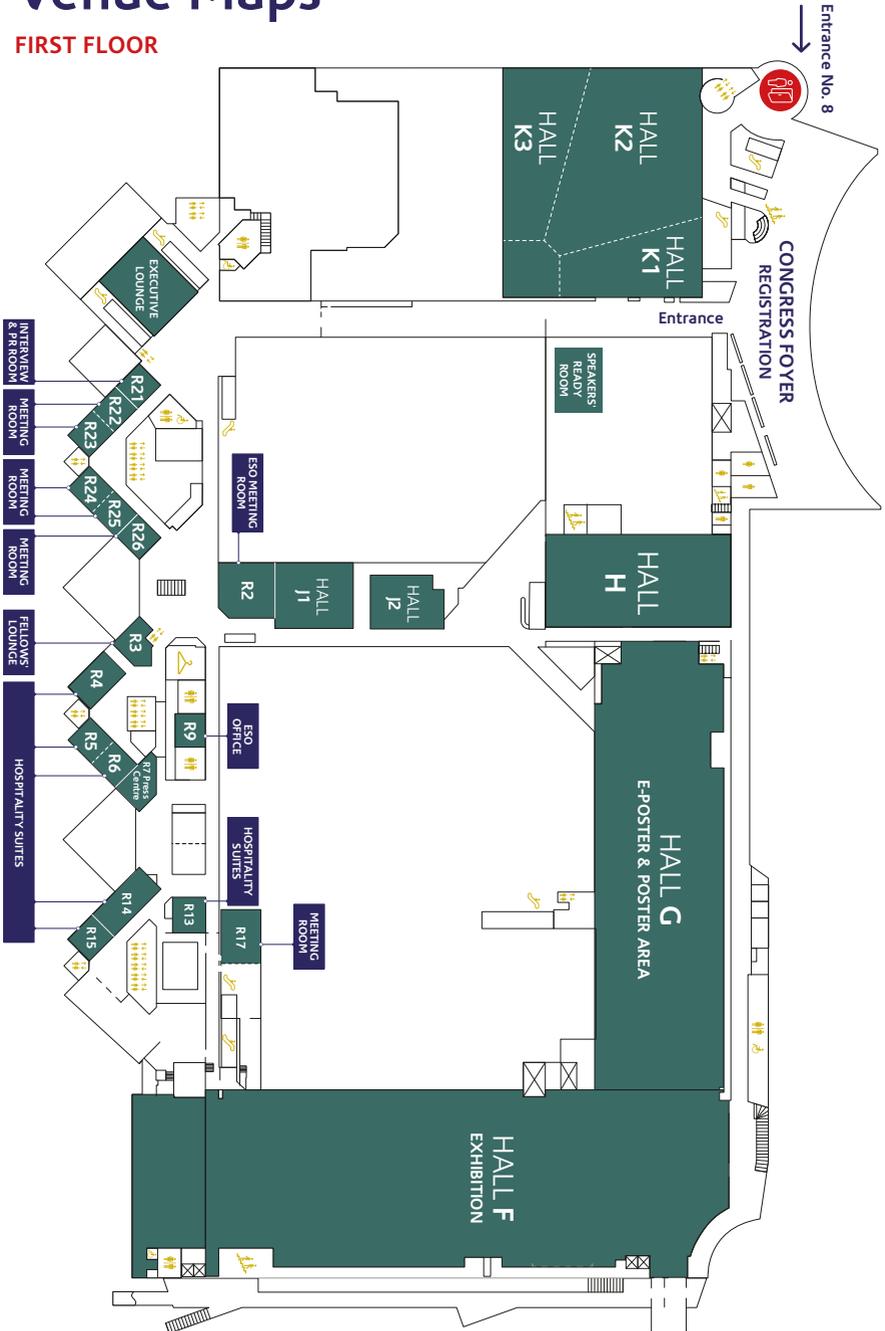
Thursday, 17 May

18:10 - 19:10

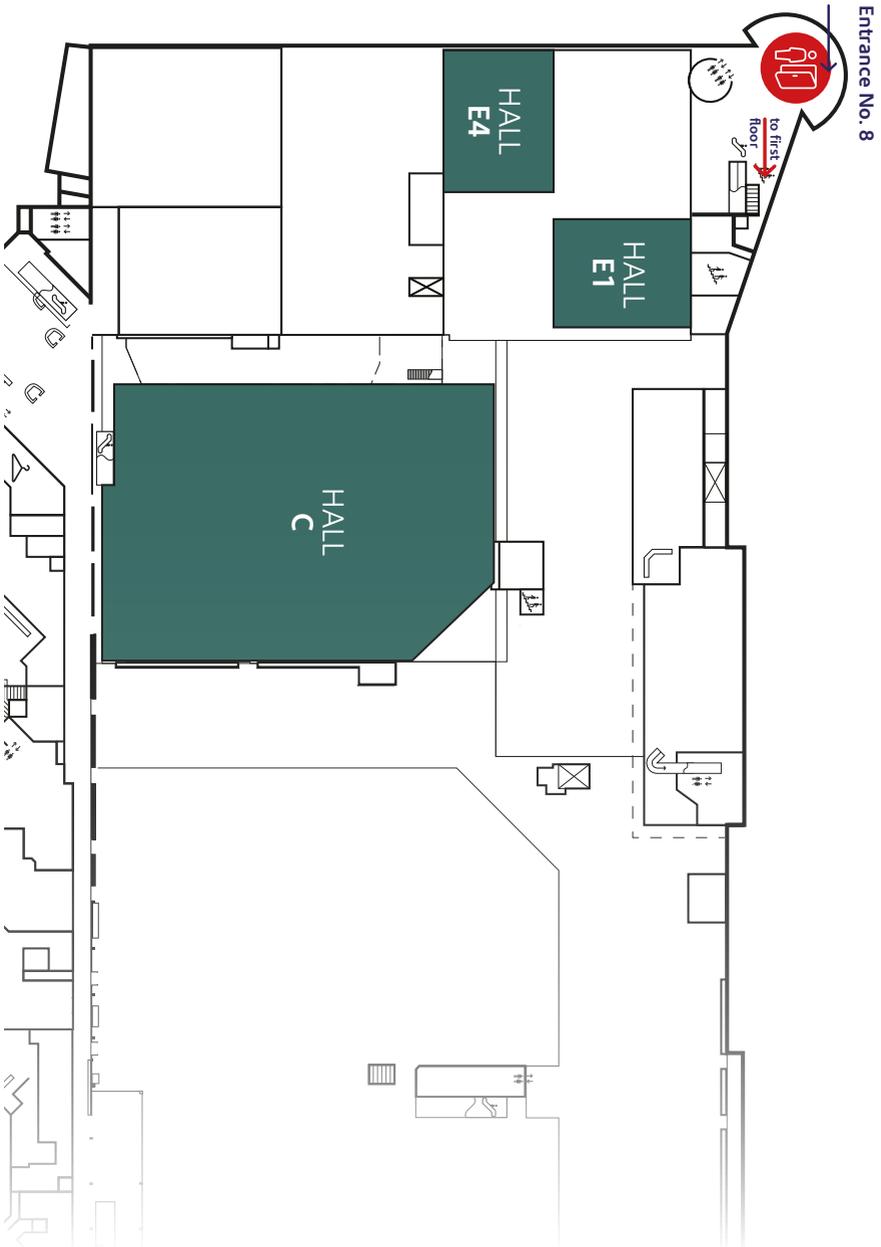
E-Poster Discussion Session 08	EXPERIMENTAL & TRANSLATIONAL	E-Poster Station 1
E-Poster Discussion Session 09	INTRACEREBRAL HAEMORRHAGE	E-Poster Station 2
E-Poster Discussion Session 10	IMAGING	E-Poster Station 3
E-Poster Discussion Session 11	SERVICE ORGANISATION	E-Poster Station 4
E-Poster Discussion Session 12	STROKE PROGNOSIS AND OUTCOME 2	E-Poster Station 5
E-Poster Discussion Session 13	CLINICAL TRIALS NON- REPERFUSION	E-Poster Station 6
E-Poster Discussion Session 14	ACUTE REPERFUSION	E-Poster Station 7

Venue Maps

FIRST FLOOR



GROUND FLOOR





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SCIENTIFIC PROGRAMME

WEDNESDAY, 16 MAY 2018

8:30 - 10:00

Hall E1

Scientific Communication: Service Organisation

Convenors: C. Levi (*Australia*)
M. Kaste (*Finland*)

8:30 **ASSOCIATION BETWEEN INDIVIDUAL ADHERENCE TO QUALITY INDICATORS AND EARLY MORTALITY AFTER ISCHEMIC STROKE: THE GERMAN STROKE REGISTERS STUDY GROUP (ADSR)**

V. Rucker, P. Hermanek, B. Misselwitz, K. Berger, G. Seidel, A. Janssen, S. Rode, C. Burmeister, C. Matthis, H.C. Koennecke, P. Heuschmann (*Germany*)

8:40 **BETWEEN-CENTER AND BETWEEN-COUNTRY DIFFERENCES IN OUTCOME AFTER ANEURYSMAL SUBARACHNOID HEMORRHAGE IN THE SUBARACHNOID HEMORRHAGE INTERNATIONAL TRIALISTS (SAHIT) REPOSITORY**

S. Dijkland, B. Jaja, M. Van der Jagt, B. Roozenbeek, E. Steyerberg, D. Dippel, R.L. Macdonald, H. Lingsma (*The Netherlands*)

8:50 **STROKE NURSE INVOLVEMENT ON CODE STROKE MANAGEMENT IMPROVES REPERFUSION METRICS**

E. Sanjuan, K.E. Santana, S. Boned, L. Calleja, M.T. Rodriguez-Samaniego, P. Giron, M. Rubiera, M. Muchada, M. Ribo, D. Rodriguez Luna, J. Pagola, J.M. Juega, N. Rodriguez, C.A. Molina (*Spain*)

9:00 **DETERMINANTS OF NON-RECOGNITION OF STROKE BY EMERGENCY MEDICAL SERVICES (EMS)**

B. Tunnage, R. Krishnamurthi, A. Swain, C. Frampton, V. Feigin (*New Zealand*)

9:10 **VIDEO SUPPORT IN THE PREHOSPITAL STROKE CHAIN**

H. Maurin Söderholm, S. Candefjord, M. Andersson Hagiwara, J.E. Karlsson, L. Rosengren, B.A. Sjöqvist (*Sweden*)

9:20 **SECONDARY TRANSFER OF STROKE PATIENTS FOR THROMBECTOMY BY AIR AMBULANCE IN ENGLAND: A COST-EFFECTIVENESS ANALYSIS**

D. Flynn, D. Coughlan, P. McMeekin, G.A. Ford, D. Craig, S. Rice, D. Burgess, J. Balami, A. Mawson, H. Lumley, P. White (*United Kingdom*)

9:30 **REAL WORLD HOSPITAL TRANSFER TIMES AND LOSS OF BRAIN TISSUE MEASURED WITH E-ASPECTS UNDERLINES IMPORTANCE OF IMPROVEMENT OF STROKE CARE DELIVERY**

J. Purrrucker, N. Mattern, C. Herweh, S. Nagel, C. Gumbinger (*Germany*)

9:40 **ELIGIBILITY FOR ENDOVASCULAR THERAPY IN A LATE TIME WINDOW IN A POPULATION-BASED STUDY**

M. Millan, N. Pérez de la Ossa, M. Hernández-Pérez, M. Gomis, L. Dorado, A. Ramos, S. Forcén, M. Álvarez, J. Álvarez, R. López, A. Dávalos (*Spain*)

9:50 **IMPROVING WORKFLOW FOR ENDOVASCULAR THROMBECTOMY: EXPERIENCE FROM THE GREATER AMSTERDAM AREA**

K. Treurniet, A. Groot, L. Van den Berg, L. Beenen, H. Marquering, Y. Roos, C. Majoie, J. Coutinho (*The Netherlands*)

8:30 - 10:00

Hall E4

Scientific Communication: Prevention Non Trials

Convenors: M. Fisher (*USA*)

G. Andersen (*Denmark*)

8:30 **SEVERE CONTRALATERAL CAROTID STENOSIS OR OCCLUSION IS ASSOCIATED WITH HIGHER RISK OF STROKE AFTER CAROTID ENDARTERECTOMY FOR ASYMPTOMATIC STENOSIS IN ACST-1**

H. Pan, R. Bulbulia, M. Sneade, R. Peto, A. Halliday (*United Kingdom*)

8:40 **HYPERPERFUSION SYNDROME POST- CAROTID ANGIOPLASTY AND STENTING (HISPANIAS STUDY): RESULTS FROM A NATIONAL PROSPECTIVE MULTICENTER STUDY**

E. Zapata-Arriaza, F. Moniche, F. Mancha, I. Escudero-Martínez, A. Tomasello, M. Ribó, F. Delgado, J.J. Ochoa, J.A. De las Heras, J.C. Gómez Sánchez, J. Zamarró, G. Parrilla, M. González Delgado, E. Murias, J. Gil, R. Gil, A. Luna, A. Gil, J. Montaner, A. González (*Spain*)

8:50 **CENTRALLY OBSERVED HOME TELEMETRIC MONITORING OF BLOOD PRESSURE TO MANAGE INTENSIVE TREATMENT (COMMIT) AFTER TIA AND STROKE: CEREBRAL HEMODYNAMICS SUBSTUDY**

S. Mazzucco, L. Li, M.A. Tuna, R. Wharton, P.M. Rothwell (*United Kingdom*)

9:00 **ANTIPLATELET TREATMENT AFTER TIA AND ISCHAEMIC STROKE IN PATIENTS WITH CEREBRAL MICROBLEEDS IN TWO LARGE COHORTS**

G.K.K. Lau, C. Lovelock, L. Li, M. Simoni, S. Gutnikov, W. Kueker, H.K.F. Mak, P.M. Rothwell (*Hong Kong*)



- 9:10 **HEALTHCARE RESOURCE USE AND COSTS ASSOCIATED WITH BLEEDING ON LONG-TERM ANTIPLATELET TREATMENT IN SECONDARY PREVENTION AFTER VASCULAR EVENTS: POPULATION-BASED COHORT STUDY**
R. Luengo-Fernandez, L. Li, P. Rothwell (United Kingdom)
- 9:20 **FREQUENCY, RISK AND OUTCOME OF ANTIPLATELET WITHDRAWAL AFTER NON-FATAL BLEEDING IN PATIENTS WITH KNOWN VASCULAR DISEASE: POPULATION-BASED STUDY**
L. Li, O. Geraghty, L. Binney, Z. Mehta, P.M. Rothwell (United Kingdom)
- 9:30 **STATIN-BASED LIPID LOWERING THERAPY FOR THE PRIMARY AND SECONDARY PREVENTION OF ISCHEMIC STROKE: A CRITICAL OVERVIEW AND META-ANALYSIS**
H. Milionis, G. Ntaios, E. Koromboki, P. Michel, K. Vemmos (Greece)
- 9:40 **INTENSIVE STATIN TREATMENT IN ACUTE ISCHEMIC STROKE PATIENTS WITH INTRACRANIAL ATHEROSCLEROSIS - HIGH-RESOLUTION MAGNETIC RESONANCE IMAGING STUDY (STAMINA-MRI STUDY)**
J.W. Chung, S.J. Kim, M.J. Lee, J. Hwang, J. Shin, W.K. Seo, G.M. Kim, C.S. Chung, O.Y. Bang (Republic of Korea)
- 9:50 **STATINS AND THE RISK OF INTRACEREBRAL HAEMORRHAGE IN STROKE PATIENTS: SYSTEMATIC REVIEW AND META-ANALYSIS**
O. Ziff, G. Banerjee, G. Ambler, D. Werring (United Kingdom)

8:30 - 10:00

Hall H

Scientific Session: Extracranial and Intracranial Large Vessel Disease

Convenors: P.A. Ringleb (*Germany*)
 N. Sprigg (*United Kingdom*)

- 8:30 **INTRACRANIAL DISSECTIONS: DIAGNOSIS AND TREATMENT**
M. Arnold (Switzerland)
- 8:45 **HOW TO TREAT VERTEBRAL ARTERY STENOSIS?**
H.B. van der Worp (The Netherlands)
- 9:00 **CAROTID ARTERY STENOSIS: CEA, CAS, OR JUST MEDICAL CARE?**
L. Bonati (Switzerland)
- 9:15 **ARTERIAL WALL IMAGING USING MRI**
J.F. Arenillas (Spain)
- 9:30 **INTRACRANIAL ATHEROSCLEROTIC DISEASE: IMAGING AND TREATMENT**
E. López Cancio (Spain)
- 9:45 **DISCUSSION**

Scientific Communication: Reperfusion I

Convenors: M. Goyal (*Canada*)
L. Thomassen (*Norway*)

8:30 **COMPREHENSIVE ANALYSIS ON RATES AND QUALITY OF PRE-INTERVENTIONAL REPERFUSION IN PATIENTS WITH IMMEDIATE ACCESS TO ENDOVASCULAR TREATMENT: PREVALENCE AND PREDICTORS**

J. Kaesmacher, M. Giarrusso, F. Zibold, P.J. Mosimann, T. Dobrocky, E. Piechowiak, S. Bellwald, M. Arnold, S. Jung, M. El-Koussy, P. Mordasini, J. Gralla, U. Fischer (*Switzerland*)

8:40 **OUTCOMES OF INTRAVENOUS THROMBOLYSIS FOR ACUTE ISCHEMIC STROKE IN PATIENTS ON DUAL ANTIPLATELET THERAPY PRIOR TO STROKE ONSET: A PROPENSITY SCORE MATCHED ANALYSIS**

G. Tsigoulis, A. Katsanos, D. Mavridis, Z. Gdovinova, M. Karliński, M.J. Macleod, D. Strbian, N. Ahmed (*Greece*)

8:50 **EARLY RECANALIZATION IN TENECTEPLASE VERSUS ALTEPLASE-TREATED DRIP-AND-SHIP PATIENTS REFERRED FOR THROMBECTOMY**

P. Seners, J. Caroff, N. Chausson, G. Turc, C. Denier, M. Piotin, M. Aghasaryan, C. Alecu, B. Lapergue, N. Bricout, C. Arquizan, T.H. Cho, A.P. Narata, S. Richard, J.L. Mas, C. Oppenheim, D. Smadja, L. Spelle, J.C. Baron (*France*)

9:00 **FACTORS ASSOCIATED WITH SUCCESSFUL RECANALIZATION AFTER IVTPA INITIATED AT LOCAL CENTERS IN ACUTE STROKE PATIENTS WITH LVO TRANSFERRED TO ENDOVASCULAR CENTERS**

N. Pérez de la Ossa, M. Ribó, M. Millán, P. Cardona, X. Urra, F. Purroy, J. Serena, J. Zaragoza, D. Cànovas, J. Krupinski, X. Ustrell, D. Cocho, E. Palomerias, S. Garcia, S. Abilleira, A. Dávalos (*Spain*)

9:10 **ALTEPLASE DOSE FOR ACUTE ISCHAEMIC STROKE: HIGHER ABSOLUTE DOSES ARE ASSOCIATED WITH FAVOURABLE FUNCTIONAL OUTCOMES AND SURVIVAL**

A. Cameron, A. Abdul-Rahim, J. Bogje, R. Mikulik, N. Ahmed, K.R. Lees (*United Kingdom*)

9:20 **SIMPLIFIED MISMATCH CRITERIA FOR PATIENTS WITH LONGER OR UNKNOWN TIME TO TREATMENT PREDICT GOOD OUTCOME AFTER MECHANICAL THROMBECTOMY**

S. Nagel, C. Herweh, J. Pfaff, S. Schieber, S. Schönenberger, M.A. Möhlenbruch, M. Bendszus, P.A. Ringleb (*Germany*)



- 9:30 **EFFECT OF HAEMOGLOBIN LEVELS ON OUTCOME IN IVT-TREATED STROKE PATIENTS**
 V. Altersberger, N. Martinez-Majan, C. Hametner, A. Eskandari, F. Spaander, M. Heldner, A. Zini, V. Padjen, G. Kägi, A. Pezzini, S. Maffei, S. Jung, P. Michel, P.A. Ringleb, G. Sibolt, S. Curtze, P. Nederkoorn, L. Kellert, S. Engelter, H. Gensicke (*Switzerland*)
- 9:40 **SIMULATION TRAINING IN STROKE THROMBOLYSIS: REDUCING MEDIAN DOOR-TO-NEEDLE TIME TO 13 MINUTES**
 S.C. Ajmi, R. Advani, L. Fjetland, K. Kurz, T. Lindner, S. Qvindesland, H. Ersdal, M. Kurz (*Norway*)
- 9:50 **IV THROMBOLYSIS IN STROKE MIMICS - RESULTS FROM THE SITS INTERNATIONAL STROKE THROMBOLYSIS REGISTER (SITS-ISTR)**
 B. Keselman, C. Cooray, G. Vanhooren, P. Bassi, D. Consoli, P. Nichelli, A. Peeters, D. Sanak, A. Zini, N. Wahlgren, N. Ahmed, M. Mazya (*Sweden*)

8:30 - 10:00

Hall K2

Scientific Session: Intracerebral Haemorrhage (I)

Convenors: C. Roffe (*United Kingdom*)
 R. Veltkamp (*United Kingdom*)

- 8:30 **CEREBELLAR INTRACEREBRAL HAEMORRHAGE: CAUSES AND PROGNOSIS**
 M. Pasi (*USA*)
- 8:45 **ICH RELATED TO DIRECT ORAL ANTICOAGULANTS**
 C. Cordonnier (*France*)
- 9:00 **ANIMAL MODELS OF ICH: WHAT HAVE THEY TAUGHT US?**
 V. Berezowski (*France*)
- 9:15 **RESUMPTION OF ORAL ANTICOAGULATION AFTER ICH: WHO, WHEN AND HOW?**
 H.B. Huttner (*Germany*)
- 9:30 **MANAGEMENT OF STATINS IN ICH PATIENTS: WHAT SHOULD WE DO?**
 T. Karapanayiotides (*Greece*)
- 9:45 **DISCUSSION**

Scientific Communication: Epidemiology

Convenors: A. Algra (*The Netherlands*)
M. Hill (*Canada*)

8:30 **TEMPORAL TRENDS OF STROKE EPIDEMIOLOGY IN SOUTHERN SWEDEN - A POPULATION-BASED STUDY ON STROKE INCIDENCE AND EARLY CASE-FATALITY**

J. Aked, H. Delavaran, B. Norrving, A. Lindgren (*Sweden*)

8:40 **LONG-TERM TRENDS IN INCIDENCE AND RISK FACTORS OF ISCHAEMIC STROKE TOAST SUBTYPES: THE SOUTH LONDON STROKE REGISTER (SLSR)**

H. Wafa, A. Rudd, C. Wolfe, Y. Wang (*United Kingdom*)

8:50 **TEMPORAL TRENDS IN INTRACEREBRAL HEMORRHAGE - A CALL FOR ACTION EVIDENCE FROM THE AUSTRIAN STROKE REGISTRY**

C. Schellen, A. Posekany, J. Ferrari, S. Krebs, W. Lang, M. Brainin, D. Staykov, M. Sykora(*Austria*)

9:00 **RESOURCES USE AND COSTS BEFORE AND AFTER ISCHEMIC STROKE. A POPULATION-BASED STUDY USING ADMINISTRATIVE DATASETS**

A. Ribera, E. Vela, A. García-Altés, M. Clèries, S. Abilleira (*Spain*)

9:10 **PROGNOSTIC IMPLICATIONS OF ADDITIONAL POST-STROKE DISABILITY IN PATIENTS WITH PRE-MORBID DISABILITY: POPULATION-BASED COHORT STUDY**

A. Ganesh, S.T. Pendlebury, R.M. Wharton, R. Luengo-Fernandez, P.M. Rothwell (*United Kingdom*)

9:20 **SERUM CHOLESTEROL PROFILES AND NEW PROGRESSION OF CAROTID PLAQUE IN THE GENERAL JAPANESE POPULATION: THE SUITA STUDY**

Y. Kokubo, W. Makoto, A. Higashiyama, Y. Miyamoto (*Japan*)

9:30 **IMPACT OF EXERCISE BLOOD PRESSURE ON STROKE RISK IN PHYSICALLY FIT AND UNFIT MEN RESULTS FROM 35 YEARS FOLLOW-UP OF HEALTHY MIDDLE-AGED MEN**

E. Prestgaard, K. Engeseth, J. Mariampillai, J. Bodegård, K. Liestøl, J. Erikssen, S. Kjeldsen, I. Grundvold, E. Berge (*Norway*)

9:40 **EMBOLIC STROKES OF UNDETERMINED SOURCE IN THE SOUTH LONDON STROKE REGISTER: A POPULATION BASED COHORT STUDY**

W. Muruet, C. Flach, A. Rudd, C. Wolfe, A. Douiri (*United Kingdom*)



- 9:50 **RISK FACTORS OF STROKE IN YOUNG ADULTS FROM A WORLDWIDE PERSPECTIVE. THE GLOBAL OUTCOME AFTER STROKE AT YOUNG AGE (GOAL)-INITIATIVE**
M. Ekker, M. Van Dongen, D. Leys, S. Debette, J.P. Marto, M. Viana-Baptista, M. Arnold, K. Nedeltchev, S. Kittner, M. Hoffmann, J. Ruiz-Sandoval, A. Arauz Gongora, T.H. Lee, A. Fromm, T.K. Sin, M.M. Mehndiratta, V. Patel, N. Yesilot, F. Fazekas, T. Gatteringer, C. Enzinger, T. Wu, R. Brouns, T. Kleinig, M. Phillips, Y.S. Kim, V. Montanaro, T.F. Hora, G. Gulli, D. Tanne, B. Von Sarnowski, R. Vibo, J. Körv, R. Swartz, K. Klijn, U. Waje-Andreassen, J. Putaala, A. Pezzini, F.E. De Leeuw, (*The Netherlands*)

8:30 - 10:00

Hall J1

Scientific Communication: Rare Causes and Stroke in the Young

- Convenors: A. Schmidt (*Germany*)
A.V. Alexandrov (*USA*)
- 8:30 **IS REACTIVATION OF LATENT HSV-1 THE CAUSE OF MOST FIBROMUSCULAR DYSPLASIA (FMD)?**
R. Hughes, M. Nagel (*USA*)
- 8:40 **IVY SIGN PREDICTS ISCHEMIC STROKE RECURRENCE IN ADULT MOYAMOYA PATIENTS RECEIVING MEDICAL TREATMENT**
K.W. Nam, W.S. Cho, H.M. Kwon, J.E. Kim, Y.S. Lee, S.W. Park, J.H. Rhim, Y.J. Son (*Republic of Korea*)
- 8:50 **CHRONIC COGNITIVE ALTERATIONS AND THEIR LINKS WITH BRAIN ATROPHY IN SUSAC SYNDROME**
S. Machado, E. Jouvent, I. Klein, F. De Guio, C. Machado, K. Sacré, T. Papo (*France*)
- 9:00 **PREVALENCE AND SHORT-TERM CHANGES OF COGNITIVE DYSFUNCTION IN YOUNG STROKE PATIENTS**
D. Pinter, T. Gatteringer, K. Niederkorn, S. Horner, S. Fandler, S. Eppinger, K. Krenn, G. Bachmaier, F. Fazekas, C. Enzinger (*Austria*)
- 9:10 **ADHERENCE TO ANTIHYPERTENSIVE MEDICATION AFTER ISCHEMIC STROKE IN YOUNG ADULTS AND ITS ASSOCIATION WITH LONG-TERM OUTCOME**
M.M.E. Van Dongen, K. Aarnio, N. Martinez-Majander, J. Pirinen, J. Sinisalo, M. Lehto, M. Kaste, T. Tatlisumak, F.E. De Leeuw, J. Putaala (*The Netherlands*)
- 9:20 **ISCHEMIC STROKES IN ADOLESCENTS**
T. Rambaud, N. Legris, M. Kossorotoff, C. Bellesme, B. Lapergue, E. Jouvent, F. Pico, D. Smadja, M. Zuber, C. Lamy, S. Crozier, Y. Bejot, C. Denier (*France*)

- 9:30 **STROKE IN YOUNG ADULTS: CANCER IN DISGUISE?**
B. Fan, J.I. Verhoeven, I.C.H. Vaartjes, P.L.M. De Kort, F.E. De Leeuw (*The Netherlands*)
- 9:40 **THROMBOLYSIS USE AND OUTCOMES IN YOUNG PATIENTS (16-29 YEARS) WITH ISCHAEMIC STROKE IN ENGLAND, WALES AND NORTHERN IRELAND. DATA FROM NATIONAL STROKE REGISTRY**
G. Meredith, L. Paley, B. Bray, A. Hoffman, A. Rudd (*United Kingdom*)
- 9:50 **ASSOCIATION BETWEEN CEREBRAL VENOUS THROMBOSIS AND DURAL ARTERIOVENOUS FISTULAS**
E. Lindgren, F. Serrano, A. Rentzos, S. Hiltunen, M.R. Heldner, S.M. Zuurbier, B.F. Giarola, M. Mansour, C. Cognard, M. Ghiasian, T. Kleinig, J.M. Coutinho, M. Arnold, J. Putaala, K. Jood, A. Arauz, T. Tatlisumak (*Sweden*)

8:30 - 10:00

Hall J2

Young Stroke Physicians & Researchers

Convenors: M. Katan (*Switzerland*)
P. Vanacker (*Belgium*)

- 8:30 **WHAT MATTERS THE MOST: CHOOSING A TOPIC, A PROJECT OR A MENTOR?**
E. Berge (*Norway*)
- 8:45 **FROM THE LAB TO THE CLINIC - HOW TO BALANCE THE TWO AS A TRAINEE**
J. Wardlaw (*United Kingdom*)
- 9:00 **FEASIBILITY OF IMPROVING CEREBRAL AUTOREGULATION IN ACUTE INTRACEREBRAL HAEMORRHAGE (BREATHE-ICH) STUDY: AN EXPERIMENTAL INTERVENTIONAL STUDY**
J. Minhas, R. Panerai, D. Swienton, T. Robinson (*United Kingdom*)
- 9:15 **SHORTENING SCAN TIMES FOR NON-INVASIVE ASSESSMENT OF HYPOPERFUSION USING BOLD DELAY**
A.C. Tanritanir, A. Khalil, J.B. Fiebach (*Germany*)
- 9:30 **REPERFUSION INJURY AFTER ISCHEMIC STROKE STUDY (RISKS): AN "IN VIVO" STUDY USING CIRCULATING AND NEURO-IMAGING MARKERS - RESULTS FROM THE INTERIM ANALYSIS**
S. Nannoni, B. Piccardi, F. Arba, V. Palumbo, G. Pracucci, A.M. Gori, B. Giusti, S. Mangiafico, E. Fainardi, D. Inzitari (*Italy*)



9:45 **PREHOSPITAL NIHSS IN CONVENTIONAL AMBULANCE SERVICE IDENTIFIES ACUTE STROKE PATIENTS**

H. Maren Ranhoff, K.O. Fremstad, C.G.B. Bache, C.G. Lund, S. Brækken, A.H. Aamodt, H. Ihle-Hansen, A.C. Braarud, J. Røislien, E.C. Sandset (Norway)

10:00 - 10:30

Exhibition Area

Coffee Break, Exhibition, Poster Viewing

10:30 - 12:00

Hall C

Official Welcome & Large Clinical Trials



Webcasting



Live streaming

Convenors: M. Dichgans (Germany)
T. Tatlisumak (Sweden)

10:30 **WELCOME SPEECHES**

V. Caso (Italy)
M. Dichgans (Germany)

Representatives from the City of Gothenburg and Region Västergötaland.

10:40 **RIVAROXABAN FOR SECONDARY STROKE PREVENTION AFTER EMBOLIC STROKE OF UNDETERMINED SOURCE: MAIN RESULTS OF THE NAVIGATE ESUS TRIAL**

R. Hart (Canada)

10:50 **THE DABIGATRAN FOLLOWING ACUTE TRANSIENT ISCHEMIC ATTACK AND MINOR STROKE TRIAL: FINAL RESULTS**

K. Butcher, K. Ng, T. Field, S. Coutts, L. Gioia, M. Siddiqui, B. Buck, M. Hill, A. Shuaib, J. Miller, L. Sivakumar, O. Benavente, R. Hart, M. Sharma (Canada) On behalf of the Dabigatran following Acute Transient ischemic Attack and Stroke (DATAS) Investigators

11:00 **RESULTS FROM THE TRANEXAMIC ACID FOR PRIMARY INTRACEREBRAL HAEMORRHAGE-2 (TICH-2) TRIAL**

N. Spriggs, K. Flaherty, Z.K. Law, J. Appleton, P. Scutt, K. Krishnan, P.M. Bath (United Kingdom) On behalf of the TICH-2 investigators

11:10 **TELEREHABILITATION IN THE HOME VERSUS THERAPY IN-CLINIC FOR PATIENTS WITH STROKE**

S. Cramer, D. Lucy, V. Le, S. Jill, A. Renee, M. Alison, Z. Robert, C. Nina, S. Walt, S. Megan, A. Barrett, J. Chae, D. Edwards, K. Agrawal, K. Ngo, E. Roth, D. Tirschwell, M. Woodbury, R. Zafonte, S. Wolf (USA)

- 11:20 **A TRIAL TO EVALUATE AN EXTENDED REHABILITATION SERVICE FOR STROKE PATIENTS (EXTRAS): MAIN RESULTS**
H. Rodgers, L. Shaw, N. Bhattarai, R. Cant, A. Drummond, G.A. Ford, A. Forster, R. Francis, K. Hills, D. Howel, A.M. Laverty, C. McKeivitt, P. McMeekin, C. Price, E. Stamp, E. Stevens, L. Vale (*United Kingdom*)
- 11:30 **ECASS-4:EXTEND: EUROPEAN COOPERATIVE ACUTE STROKE STUDY-4 - EXTENDING THE TIME FOR THROMBOLYSIS IN EMERGENCY NEUROLOGICAL DEFICITS**
M. Bendszus, G. Donnan, W. Hacke, C. Molina, D. Leys, P.A. Ringleb, P. Schellinger, S. Schwab, D. Toni, N. Wahlgren (*Germany*) On behalf of the ECASS-4 Collaborators
- 11:40 **INTRAVENOUS THROMBOLYSIS IN STROKE PATIENTS WITH UNKNOWN TIME OF SYMPTOM ONSET – RESULTS OF THE RANDOMIZED CONTROLLED WAKE-UP TRIAL**
G. Thomalla, C.Z. Simonsen, F. Boutitie, B. Cheng, T.H. Cho, M. Ebinger, M. Endres, J.B. Fiebach, J. Fiehler, I. Ford, I. Galinovic, R. Lemmens, K. Muir, N. Nighoghossian, S. Pedraza, J. Puig, P. Roy, V. Thijs, C. Gerloff (*Germany*) On behalf of the Wake-Up Investigators
- 11:50 **PRIMARY RESULTS OF THE PLATELET-ORIENTED INHIBITION IN NEW TIA AND MINOR ISCHEMIC STROKE (POINT) TRIAL**
S.C. Johnston, J.D. Easton, M. Farrant, W. Barsan, R. Conwit, J.J. Elm, A.S. Kim, A. Lindblad, Y.Y. Palesch (*USA*)

12:00 - 12:45

Exhibition Area

Lunch Break, Exhibition, Poster Viewing

12:45 - 14:15

Hall E1

Industry Supported Session

*Industry Session not Included in Main Event CME/CPD Credit
For more information see page 337*

12:45 - 14:15

Hall E4

Industry Supported Session

*Industry Session not Included in Main Event CME/CPD Credit
For more information see page 336*

12:45 - 14:15

Hall H

Industry Supported Session

*Industry Session not Included in Main Event CME/CPD Credit
For more information see page 335*



12:45 - 14:15

Hall K1

Industry Supported Session

*Industry Session not Included in Main Event CME/CPD Credit
For more information see page 333*

12:45 - 14:15

Hall K3

Industry Supported Session

*Industry Session not Included in Main Event CME/CPD Credit
For more information see page 334*

14:15 - 14:30

Short Break

14:30 - 16:00

Hall C

Presidential Symposium - Awards & Trials*Webcasting**Live streaming*

Convenors: K.R. Lees (*United Kingdom*)
V. Caso (*Italy*)

14:30 **AWARDS**V. Caso (*Italy*)

14:40 **CEREBRAL MICROBLEEDS AND INTRACRANIAL HAEMORRHAGE RISK IN PATIENTS WITH ATRIAL FIBRILLATION AFTER ACUTE ISCHAEMIC STROKE OR TRANSIENT ISCHAEMIC ATTACK: OBSERVATIONAL MULTICENTRE PROSPECTIVE COHORT STUDY**

D. Wilson, C. Shakeshaft, G. Ambler, M. Brown, A. Charidimou, R. Al-Shahi Salman, G. Lip, H. Cohen, G. Banerjee, H. Houlden, M. White, T. Yousry, K. Muir, H.R. Jäger, D. Werring (*United Kingdom*)

14:50 **THROMBECTOMY FOR ANTERIOR CIRCULATION STROKE BEYOND 6 HOURS FROM TIME LAST KNOWN WELL: PRIMARY RESULTS OF AURORA (INDIVIDUAL PATIENT LEVEL POOLED-ANALYSIS FROM FIVE RANDOMIZED TRIALS)**

T. Jovin, M. Lansberg, M. Hill, M. Goyal, J. Mocco, A. Turk, A. Davalos, G. Albers, R. Nogueira (*USA*) On behalf of the AURORA collaborators

15:00 **KEY SUBGROUP ANALYSES FROM THE DEFUSE 3 STUDY**

G.W. Albers, M. Marks, M. Lansberg (*USA*) On behalf of the DEFUSE 3 Investigators

- 15:10 **EFFECTS OF ALTEPLASE FOR ACUTE STROKE AMONG PREDEFINED SUBGROUPS: INDIVIDUAL-PATIENT-DATA META-ANALYSIS OF RANDOMISED TRIALS**
K.R. Lees (*United Kingdom*) On behalf of the Stroke Thrombolysis Trialists' Collaboration
- 15:20 **STROKE123: RESULTS FROM A MULTICENTRE, CONTROLLED BEFORE-AND-AFTER STUDY TO IMPROVE ACUTE STROKE CARE IN AUSTRALIA**
D. Cadilhac, M.F. Kilkeny, N.E. Andrew, K. Hill, B. Grabsch, N.A. Lannin, C.S. Anderson, C. Levi, A. Thrift, S. Faux, G.A. Donnan, S. Middleton, G. Cadigan, J. Wakefield, R. Grimley (*Australia*) On behalf of the Stroke 123 investigators and AuSCR Consortium
- 15:30 **5-YEAR RISK OF TIA AND MINOR ISCHEMIC STROKE: THE TIAREGISTRY.ORG FINAL RESULTS**
P. Amarenco (*France*) On behalf of the TIAregistry.org Steering Committee and Investigators
- 15:40 **MULTI-ANCESTRY GENOME-WIDE ASSOCIATION STUDY OF > 521,000 SUBJECTS IDENTIFIES 22 NOVEL LOCI ASSOCIATED WITH STROKE AND STROKE SUBTYPES**
M. Dichgans, R. Malik, G. Chauhan, M. Traylor, M. Sargurupremraj, Y. Okada, D. Woo, J. Rosand, G. Pare, J.C. Hopewell, D. Saleheen, K. Stefansson, B.B. Worrall, S.J. Kittner, S. Seshadri, M. Fornage, H.S. Markus, J.M. Howson, Y. Kamatani, S. Debette (*Germany*) On behalf of MEGASTROKE Consortium
- 15:50 **THERAPEUTIC INDUCED HYPERTENSION IN ACUTE STROKE PATIENTS WITH NON-CARDIOEMBOLIC STROKE: A MULTICENTER, RANDOMIZED CONTROLLED TRIAL**
J.W. Chung, S.K. Kim, S.J. Kim, M.J. Lee, J. Hwang, W.K. Seo, Y.S. Ha, S.M. Sung, E.G. Kim, S.I. Sohn, M.K. Han, O.Y. Bang (*Republic of Korea*) On behalf of the SETIN-HYPERTENSION trial investigators

16:00 - 16:30

Exhibition Area

Coffee Break, Exhibition, Poster Viewing



Scientific Session: Endovascular Treatment Joint ESO - ESMINT session



Webcasting

Convenors: D. Strbian (*Finland*)
P. White (*United Kingdom*)

16:30 **DO WE STILL NEED SELECTION CRITERIA FOR STROKE PATIENTS WITH ACUTE LARGE VESSEL OCCLUSION?**

O. Berkhemer (*The Netherlands*)

16:43 **DOES FUTILE RECANALISATION EXIST?**

J. Fiehler (*Germany*)

16:56 **PERI-INTERVENTIONAL CRITICAL CARE OF STROKE PATIENTS**

P. Löwhagen Hendén (*Sweden*)

17:09 **ADVANCES IN DEVICE TECHNOLOGY**

R. Chapot (*Germany*)

17:22 **THROMBUS CHARACTERISTICS AND RECANALISATION**

S. De Meyer (*Belgium*)

17:35 **TRAINING OF NEUROINTERVENTIONALISTS: A PAN-EUROPEAN CHALLENGE**

L. Pierot (*France*)

17:48 **DISCUSSION**

16:30 - 18:00

Hall E1

Allied Health Care Session: Enriched Environments in Stroke Rehabilitation

Convenors: A. Luft (*Switzerland*)
H. Malá Rytter (*Denmark*)

16:30 **ENRICHED ENVIRONMENT IN PRECLINICAL STUDIES**

H. Malá Rytter (*Denmark*)

16:45 **EMBEDDING AN ENRICHED ENVIRONMENT IN AN ACUTE STROKE UNIT**

S.G. Brauer (*Australia*)

17:00 **REWARD ENRICHED REHABILITATION**

M. Widmer (*Switzerland*)

17:15 **NURSING ENRICHED ENVIRONMENTS**

D. Mösinger (*Switzerland*)

17:30 **ALICE IN WONDERLAND – AN ENRICHED REHABILITATION ENVIRONMENT**

D. Kamper (*USA*)

17:45 **DISCUSSION**

16:30 - 18:00

Hall E4

Scientific Communication: Prognosis and Outcome

Convenors: Y. Kokubo (*Japan*)
TBA

16:30 **REFINING PREDICTION OF MAJOR BLEEDING ON ANTIPLATELET TREATMENT AFTER NONCARDIOEMBOLIC STROKE OR TIA**

N. Hilken, L. Li, P. Rothwell, A. Algra, J. Greving (*The Netherlands*)

16:40 **PREDICTION OF FUNCTIONAL OUTCOME AFTER ANEURYSMAL SUBARACHNOID HAEMORRHAGE – DEVELOPMENT AND VALIDATION OF A SIMPLE RISK SCORE (ABC2)**

I.C. Hostettler, M. Pavlou, G. Ambler, C. Muroi, S. Bonner, D. Walsh, D. Bulters, N. Kitchen, M.M. Brown, H. Houlden, J. Grieve, E. Keller, D.J. Werring (*United Kingdom*)

16:50 **SUBGROUPS OF TIA AND ISCHAEMIC STROKE PATIENTS WITH A HIGH RESIDUAL RISK OF CORONARY EVENTS: POPULATION-BASED COHORT STUDY**

M. Boulanger, L. Li, L. Silver, P.M. Rothwell (*France*)



- 17:00 **DEVELOPMENT AND VALIDATION OF A RISK PREDICTION ALGORITHM FOR POST-STROKE DEPRESSION USING THE SOUTH LONDON STROKE REGISTER**
M. Komori, M. Fahey, M. Obaid, A. Rudd, C. Wolfe, A. Douiri (*United Kingdom*)
- 17:10 **SOCIOECONOMIC DISPARITIES IN PREHOSPITAL STROKE CARE IN SWEDEN?**
A. Niklasson, J. Herlitz, K. Jood (*Sweden*)
- 17:20 **ASSOCIATIONS BETWEEN THROMBUS IMAGING CHARACTERISTICS AND PATIENT OUTCOMES AFTER ENDOVASCULAR TREATMENT OF ACUTE ISCHEMIC STROKE: RESULTS FROM THE MR CLEAN REGISTRY**
M. Tolhuisen, B. Dutra, H. Alves, K. Treurniet, M. Kappelhof, I. Jansen, A. Yoo, D. Dippel, W. Van Zwam, R. Van Oostenbrugge, H. Lingsma, A. Van der Lugt, Y. Roos, H. Marquering, C. Majoie (*The Netherlands*)
- 17:30 **MULTIVARIABLE OUTCOME PREDICTION AFTER ENDOVASCULAR TREATMENT FOR ACUTE ISCHEMIC STROKE: DEVELOPMENT OF A PROGNOSTIC MODEL IN DATA FROM THE HERMES COLLABORATION**
V. Chalos, E. Venema, M. Mulder, B. Roozenbeek, S. Brown, A. Demchuck, K. Muir, A. Dávalos, P. Mitchell, S. Bracard, M. Hill, P. White, B. Campbell, F. Guillemin, J. Saver, T. Jovin, M. Goyal, A. Van der Lugt, D. Dippel, H. Lingsma (*The Netherlands*)
- 17:40 **SHORT AND LONG-TERM RISKS OF STROKE AFTER ORTHODOX-DEFINITION TRANSIENT ISCHAEMIC ATTACK VERSUS DISQUALIFIED MONOSYMPTOMATIC EVENTS: POPULATION-BASED COHORT STUDY**
M.A. Tuna, L. Li, L. Gaziano, Z. Mehta, P. Rothwell (*United Kingdom*)
- 17:50 **MICROALBUMINURIA COULD IMPROVE RISK PREDICTION OF STROKE IN PATIENTS WITH TIA AND MINOR STROKE: THE PROGNOSTIC MARKERS OF TIA EVOLUTION (PROMOTE) STUDY**
W.D. Strain, N. Wedge, L. Mounce, S. Elyas, M. James, A.C. Shore (*United Kingdom*)

Scientific Communication: AF and Cardioembolic Stroke

Convenors: C. Gerloff (*Germany*)

S. Lorenzano (*Italy*)

16:30 **VALUE OF CARDIAC CT-ANGIOGRAPHY IN THE DIAGNOSTIC WORKUP OF PATIENTS WITH TIA AND ACUTE ISCHAEMIC STROKE: PREVALENCE OF CARDIOEMBOLIC RISK SOURCES AND THERAPEUTIC IMPLICATIONS**

G. Holswilder, M. Wermer, L. Kroft, A. De Roos, E. Holman, N. Kruyt, M. Van Walderveen
(*The Netherlands*)

16:40 **STROKE RISK ANALYSIS. A NOVEL AUTOMATIC SYSTEM WITH A HIGH DETECTION RATE OF PAROXYSMAL ATRIAL FIBRILLATION IN THE ACUTE PHASE OF STROKE**

A. Dávalos, M. Gomis, F. Purroy, P. Cardona, A. Rodríguez-Campello, J. Martí-Fàbregas, J. Pagola, L. Pardo, L. Muñoz-Narbona, I. Benabdelhak, B. Lara, E. Cuadrado-Godia, A. Martínez-Domeño, J.M. Juega, J. Serena, J. Alvarez-Ballano, A. Paipa, J. Roquer, R. Neeter, C. Molina (*Spain*)

16:50 **THE NEUROLOGIST'S APPROACH TO CEREBRAL INFARCT AND TRANSIENT ISCHEMIC ATTACK IN PATIENTS RECEIVING ANTICOAGULANT TREATMENT FOR NONVALVULAR ATRIAL FIBRILLATION. ANITA-FA STUDY**

Á. Ximénez-Carrillo, G. Zapata-Wainberg, S. Quintas, A. García Pastor, M. Martínez, P. Cardona, M. Freijó, L. Llull, J. Masjuán, L. Benavente, M. Castellanos, J. Egido, J. Serena, J. Vivancos (*Spain*)

17:00 **SAFETY AND EFFECTIVENESS OF DABIGATRAN IN PATIENTS WITH ATRIAL FIBRILLATION WITH AND WITHOUT PRIOR STROKE: DATA FROM THE GLORIA-AF REGISTRY PROGRAM**

H.C. Diener, C. Teutsch, M.V. Huisman, S.J. Dubner, C.S. Ma, K.J. Rothman, S. Lu, M. Paquette, L. Riou França, J.L. Halperin, G.Y.H. Lip (*Germany*)

17:10 **BOTH, PFO-RELATED AND -UNRELATED FACTORS DRIVE THE RISK OF STROKE RECURRENCE IN PATIENTS WITH CRYPTOGENIC STROKE AND PFO**

T. Kahles, P. Michel, F. Eberli, M. Zedde, D. Vogt, V. Thijs, M. Kraemer, S. Engelter, J. Serena, C. Weimar, A. Mallmann, A. Luft, D. Hemelsoet, D. Thaler, A. De Pauw, R. Sztajzel, B. Meier, H. Mattle, M.L. Mono, K. Nedeltchev (*Switzerland*)

17:20 **CLOSURE, ANTICOAGULATION OR ANTIPLATELET THERAPY FOR STROKE WITH PATENT FORAMEN OVALE: SYSTEMATIC REVIEW OF RANDOMIZED TRIALS, SEQUENTIAL META-ANALYSIS AND NEW INSIGHTS FROM THE CLOSE TRIAL**

G. Turc, D. Calvet, P. Guérin, M. Sroussi, G. Chatellier, J.L. Mas (*France*)



- 17:30 **POPULATION-BASED STUDY AND SYSTEMATIC REVIEW OF TIME-TRENDS IN AF-RELATED STROKE AND PREMORBID ANTICOAGULATION: CONTINUING CHALLENGE FOR STROKE PREVENTION**

G. Yiin, L. Li, P. Rothwell (*United Kingdom*)

- 17:40 **BRIDGING THERAPY WITH LOW-MOLECULAR WEIGHT HEPARIN IN PATIENTS WITH ACUTE ISCHEMIC STROKE AND ATRIAL FIBRILLATION: RESULTS FROM THE RAF AND RAF-NOACS STUDIES**

R. Altavilla, M. Paciaroni, V. Caso (*Italy*) On behalf of RAF investigators

16:30 - 18:00

Hall K1

Scientific Session: Neuropsychiatric Complications of Stroke

Convenors: J. Minnerup (*Germany*)

O. Godefroy (*France*)

- 16:30 **EPIDEMIOLOGY OF NEUROPSYCHIATRIC COMPLICATIONS AFTER STROKE**

M. Hackett (*Australia*)

- 16:45 **POST-STROKE DEMENTIA – DIAGNOSTIC AND THERAPEUTIC APPROACH**

V. Mok (*Hong Kong*)

- 17:00 **MECHANISMS OF POST-STROKE DEPRESSION**

M. Endres (*Germany*)

- 17:15 **DIAGNOSTIC AND THERAPEUTIC APPROACH TO POST-STROKE DEPRESSION**

A. Verdelho (*Portugal*)

- 17:30 **APATHY AND FATIGUE – MECHANISMS AND TREATMENT**

H. Henon (*France*)

- 17:45 **DISCUSSION**

Scientific Communication: Prevention Trials

Convenors: M. von Euler (*Sweden*)

G.J. Hankey (*Australia*)

- 16:30 **HIGH OPERATOR AND HOSPITAL VOLUME ARE ASSOCIATED WITH A DECREASED RISK OF DEATH AND STROKE FOLLOWING CAROTID REVASCUARISATION. A SYSTEMATIC REVIEW AND META-ANALYSIS**

M. Poorthuis, E. Brand, A. Halliday, R. Bulbulia, M. Bots, G. De Borst (*The Netherlands*)

- 16:40 **EFFECT ON SEVEN YEAR SURVIVAL OF A MULTIFACTORIAL VASCULAR RISK FACTOR INTERVENTION FIRST YEAR AFTER STROKE OR TIA**

G. Hagberg, B. Fure, E.C. Sandset, B. Thommessen, A.R. Øksengård, S. Nygård, T.B. Wyller, H. Ihle-Hansen, H. Ihle-Hansen (*Norway*)

- 16:50 **EFFECTS OF CANAGLIFLOZIN ON STROKE IN THE CANVAS PROGRAM**

R. Lindley, Z. Zhou, K. Rådholm, B. Jenkins, J. Watson, D.R. Matthews, V. Perkovic, D. De Zeeuw, G. Fulcher, K.W. Mahaffey, W. Shaw, Q. Li, R. Oh, M. Desai, B. Neal (*Australia*)

- 17:00 **DIRECT ORAL ANTICOAGULANTS VERSUS VITAMIN K ANTAGONISTS AFTER A RECENT ISCHEMIC STROKE - A POOLED INDIVIDUAL PATIENT DATA ANALYSIS**

D. Seiffge, M. Paciaroni, D. Wilson, M. Koga, K. Macha, M. Cappellari, S. Schaedelin, C. Shakeshaft, M. Takagi, B. Bonetti, B. Kallmuenzer, P. Bovi, S. Schwab, G. Tzivgoulis, P. Lyrer, K. Toyoda, D. Werring, V. Caso, S. Engelter, G.M. De Marchis (*Switzerland*)

- 17:10 **PREDICTION OF MAJOR BLEEDING WITH S2TOP-BLEED SCORE IN ACUTE ISCHAEMIC STROKE OR TIA PATIENTS: A SUB-STUDY OF THE TARDIS TRIAL**

L.J. Woodhouse, K. Flaherty, J.P. Appleton, N. Sprigg, P.M. Bath (*United Kingdom*)

- 17:20 **CHARACTERISTICS AND OUTCOMES OF PATIENTS WITH OR WITHOUT A BLEEDING EVENT: RESULTS FROM THE TRIPLE ANTIPLATELETS FOR REDUCING DEPENDENCY IN ISCHAEMIC STROKE (TARDIS) TRIAL**

L.J. Woodhouse, K. Flaherty, J.P. Appleton, N. Sprigg, P.M. Bath (*United Kingdom*)

- 17:30 **ESTIMATED TREATMENT EFFECT OF TICAGRELOR VERSUS ASPIRIN BY INVESTIGATOR-ASSESSED EVENTS COMPARED WITH JUDGMENT BY AN INDEPENDENT EVENT ADJUDICATION COMMITTEE IN THE SOCRATES TRIAL**

J.D. Easton, H. Denison, M. Knutsson, P. Amarenco, G.W. Albers, S.R. Evans, P. Ladenvall, K. Minematsu, C.A. Molina, Y. Wang, K.S.L. Wong, S.C. Johnston (*USA*)



- 17:40 **BENEFIT-RISK ASSESSMENT USING NOVEL METHODOLOGIES: TICAGRELOR VS ASPIRIN IN ACUTE STROKE OR TRANSIENT ISCHEMIC ATTACK IN THE SOCRATES TRIAL**
 S. Evans, M. Knutsson, S.C. Johnston, P. Amarenco, G.W. Albers, H. Denison, J.D. Easton, J. Jonasson, P. Ladenvall, K. Minematsu, C.A. Molina, Y. Wang, K.S.L. Wong (USA)
- 17:50 **BALANCING BENEFITS AND RISKS OF LONG-TERM ANTIPLATELET THERAPY IN PATIENTS WITH A TIA OR NONCARDIOEMBOLIC ISCHAEMIC STROKE: AN INDIVIDUAL PATIENT DATA META-ANALYSIS**
 N. Hilken, A. Algra, H.C. Diener, P. Bath, L. Csiba, W. Hacke, J. Kappelle, P. Koudstaal, D. Leys, J.L. Mas, R. Sacco, J. Greving (The Netherlands)

16:30 - 18:00

Hall K3

Scientific Session: Women and Stroke: Women Initiative for Stroke in Europe

- Convenors: H. Ihle-Hansen (Norway)
 K. Jood (Sweden)
- 16:30 **SOCIOECONOMIC FACTORS AND ISCHEMIC STROKE: AN EXPLANATION FOR SEX DIFFERENCES?**
 A. Pavlovic (Serbia)
- 16:45 **IVT AND EVT EVIDENCE: ACCESS IN MEN AND WOMEN**
 P. Ijäs (Finland)
- 17:00 **SEX DIFFERENCES IN STROKE – THE BASIC SCIENCE PERSPECTIVE**
 C. Gibson (United Kingdom)
- 17:15 **STROKE KNOWLEDGE IN YOUNG MEN AND WOMEN**
 M.L. Zedde (Italy)
- 17:30 **WHY ARE WOMEN UNDERREPRESENTED IN STROKE TRIALS AND HOW CAN WE CHANGE IT?**
 P. Sandercock (United Kingdom)
- 17:45 **DISCUSSION**

Scientific Communication: Genetics, Omics and Biomarkers

Convenors: S. Debette (*France*)
J. Montaner (*Spain*)

16:30 **ELEVATED ENDOTHELIAL AND LEUCOCYTIC MICROVESICLE LEVELS ARE RELATED TO ADVERSE LONG-TERM CARDIOVASCULAR OUTCOME AFTER MILD TO MODERATE ISCHEMIC STROKE**

S. Huo, N. Kränkel, A.H. Nave, P.S. Sperber, J.L. Rohmann, S.K. Piper, U. Landmesser, M. Endres, B. Siegerink, T.G. Liman (*Germany*)

16:40 **A NEW, CLINICALLY AVAILABLE, TARGETED SEQUENCING PANEL TO SCREEN FOR MONOGENIC CAUSES OF SMALL VESSEL STROKE: EVALUATION IN 993 YOUNGER ONSET LACUNAR STROKE PATIENTS**

R.Y.Y. Tan, M. Traylor, D. Duarte, S.V.V. Deevi, K. Megy, S. Gräf, K. Downes, H.S. Markus (*United Kingdom*)

16:50 **METALLOPROTEINASE-9, BOTH ACTIVITY AND ANTIGEN ACUTE CHANGES, PREDICTS HEMORRHAGIC TRANSFORMATION IN ISCHEMIC STROKE PATIENTS TREATED WITH THROMBOLYSIS**

B. Piccardi, A.M. Gori, A. Sereni, M. Nesi, V. Palumbo, B. Giusti, F. Arba, P. Nencini, G. Pracucci, R. Abbate, D. Inzitari (*Italy*)

17:00 **A GENOME-WIDE ASSOCIATION STUDY IDENTIFIED A CANDIDATE LOCUS ASSOCIATED WITH RTPA-INDUCED HEMORRHAGIC TRANSFORMATION**

C. Carrera Vasconez, N. Cullell, N. Torres-Águila, E. Muiño, E. López-Cancio, A. Dávalos, B. Alejandro, M. Ribó, C. Vives-Bauza, V. Obach, T. Segura, J. Martí-Fabregas, L. Heitsch, L. Ibañez, J. Jimenez-Conde, J. Roquer, C. Cruchaga, J. Montaner, J.M. Lee, I. Fernández-Cadenas (*Spain*)

17:10 **GENOME-WIDE ASSOCIATION STUDY OF FUNCTIONAL OUTCOME AFTER ISCHEMIC STROKE**

M. Söderholm, A. Pedersen, E. Lorentzen, S. Bevan, M. Olsson, T.M. Stanne, J. Jimenez-Conde, J.M. Lee, R. Lemmens, B. Norrving, K. Rannikmäe, N. Rost, P.M. Rothwell, R. Scott, D. Strbian, D. Woo, B.B. Worrall, J.M. Maguire, A. Lindgren, C. Jern (*Sweden*)

17:20 **BRAIN ARTERIAL DILATATION AND MIDREGIONAL PRO-ATRIAL NATRIURETIC PEPTIDE AS MARKERS OF HEMODYNAMIC DYSFUNCTION: THE NORTHERN MANHATTAN STUDY**

J. Gutierrez Contreras, M. Katan, M. Santiago, N. Alperin, A. Bagci, T. Rundek, C.B. Wright, R.L. Sacco, M.S. Elkind (*USA*)



- 17:30 **SERUM NEUROFILAMENT LIGHT: A BIOMARKER OF NEUROAXONAL INJURY AFTER ISCHEMIC STROKE**
 S. Tiedt, M. Dering, C. Barro, A.G. Kaya, J. Boeck, F.J. Bode, M. Klein, F. Dorn, B. Gesierich, L. Kellert, B. Ertl-Wagner, M.W. Goertler, G.C. Petzold, J. Kuhle, F.A. Wollenweber, N. Peters, M. Dichgans (*Germany*)
- 17:40 **SERUM NEUROFILAMENT LIGHT PREDICTS SHORT- AND LONG-TERM OUTCOMES IN ISCHEMIC STROKE**
 A. Pedersen, T. Stanne, S. Klasson, S. Nilsson, L. Rosengren, L. Holmegaard, K. Jood, K. Blennow, H. Zetterberg, C. Jern (*Sweden*)
- 17:50 **RABEP2 (RAB GTPASE-EFFECTOR BINDING PROTEIN-2) IS ASSOCIATED WITH ISCHEMIC STROKE PHENOTYPES: A TRANSLATIONAL REPLICATION STUDY**
 N.S. Rost, A.K. Giese, B.B. Worrall, S. Williams, R. Malik, P. Frid, A.G. Lindgren, J. Wasselius, O. Wu, J.E. Faber (*USA*)

16:30 - 18:00

Hall J2

Teaching Course: Stroke Unit Care

TICKET *Pre-registration required*

- Convenors: D. Jenkinson (*United Kingdom*)
 H.J. Audebert (*Germany*)
- 16:30 **HOW CAN WE DO EVEN FASTER IN THE PREHOSPITAL AND ED PHASE?**
 P. Ylikotila (*Finland*)
- 16:50 **COMPREHENSIVE STROKE PATHWAYS – A TEAM EFFORT**
 D. Jenkinson (*United Kingdom*)
- 17:10 **TELEMEDICINE IN THE ERA OF THROMBECTOMY**
 H.J. Audebert (*Germany*)
- 17:30 **ORGANISATION OF ENDOVASCULAR STROKE TREATMENT**
 E. Díez-Tejedor (*Spain*)
- 17:50 **DISCUSSION**

18:00 - 19:15

Exhibition & Poster Area

Welcome Reception, Poster Viewing and E-Poster Discussion Sessions

18:15 - 19:15

Poster Area

E-Poster Discussion: Epidemiology

Convenor: R. Al-Shahi Salman (*United Kingdom*)

18:15 **SEX DIFFERENCE IN SPECIFIC-CAUSE MORTALITY AFTER STROKE: THE AUSTRALIAN STROKE CLINICAL REGISTRY**

H. Phan, S. Gall, L. Blizzard, N. Lannin, A. Thrift, C. Anderson, J. Kim, R. Grimley, H. Castley, D. Cadilhac (*Australia*)

18:23 **GOOGLING MAPS OF TRANSIENT ISCHEMIC ATTACK ACROSS LOCAL GOVERNMENT AREAS IN VICTORIA**

S. Hui, H. Ma, R. Beare, B. Clissold, V. Sundararajan, A. Thrift, V. Srikanth, T. Phan (*Australia*)

18:31 **EPIDEMIOLOGY OF RURAL/URBAN STROKE DISPARITIES IN THE GREATER CINCINNATI / NORTHERN KENTUCKY STROKE STUDY**

A. Jasne, C. Brokamp, K. Alwell, C. Moomaw, M. Flaherty, O. Adeoye, D. Woo, J. Mackey, S. Ferioli, S. Martini, F. De los Rios la Rosa, B. Kissela, J. Khoury, D. Kleindorfer (*USA*)

18:39 **EARLY LIFE FACTORS AND RISK OF ADVERSE OUTCOMES 3 YEARS POST-MINOR ISCHAEMIC STROKE**

C. McHutchison, V. Cvorov, S. Makin, F.M. Chappell, K. Shuler, J.M. Wardlaw (*United Kingdom*)

18:47 **INTERLEUKIN 6 TRANS-SIGNALLING AND RISK OF FUTURE ISCHEMIC STROKE**

L. Ziegler, A. Gajulapuri, P. Frumento, H. Wallén, U. De Faire, B. Gigante (*Sweden*)

18:55 **DECREASING STROKE INCIDENCE AND LONG-TERM CASE FATALITY IN ITALY**

R. Ornello, C. Tiseo, D. Degan, B. Orlandi, F. Pistoia, A. Carolei, S. Sacco (*Italy*)



E-Poster Discussion: Acute Non Reperfusion

Convenor: C. Bladin (*Australia*)

- 18:15 **SECONDARY TRANSFER FOR THROMBECTOMY: WHICH FACTORS MODIFY THE OUTCOME OF PATIENTS ? RESULTS OF A PROSPECTIVE OBSERVATIONAL STUDY IN A NETWORK OF BELGIAN HOSPITALS**

E. Levecque, J. Simon, O. Cornet, D. Brisbois, P. Reginster, C. Ciobanu, S. Gillet, K. Windhausen, P. Heinen, S. Boly, L. Dieudonné, P. Desfontaines (*Belgium*)

- 18:23 **IMPACT OF TIME TO RECANALIZATION ON CLINICAL OUTCOME OF ACUTE ISCHEMIC STROKE PATIENTS TREATED WITH MECHANICAL THROMBECTOMY**

D.F. Gabriel, Â. Carneiro, G. Videira, R. Soares dos Reis, H. Martins, R. Almendra, R. Felgueiras, G. Lopes, C. Correia, J. Xavier, M. Correia (*Portugal*)

- 18:31 **DECISION-MAKING COMPETENCE IN PATIENTS WITH ACUTE ISCHEMIC STROKE ELIGIBLE FOR ENDOVASCULAR TREATMENT – IMPLICATIONS FOR FUTURE TRIALS**

P.M. Janssen, V. Chalos, I.T. Kucuk, S.A. Van den Berg, H.B. van der Worp, W. Van Zwam, D.W.J. Dippel (*The Netherlands*)

- 18:39 **DOOR-IN-DOOR-OUT TIMES ACROSS A CANADIAN PROVINCE FOR OPTIMAL ACCESS TO ENDOVASCULAR THERAPY**

N. Kamal, T. Jeerakathil, A. Demchuk, E. Smith, B. Mann, B. Buck, M. Hill (*Canada*)

- 18:47 **GOOGLING BOUNDARIES FOR OPERATING MOBILE STROKE UNIT FOR STROKE CODES**

T. Phan, R. Beare, V. Srikanth, M. Parsons, S. Davis, G. Donnan, H. Ma (*Australia*)

- 18:55 **MANAGEMENT OF PATIENTS WITH TANDEM CAROTID OCCLUSION UNDERGOING ENDOVASCULAR THROMBECTOMY FOR ANTERIOR CIRCULATION STROKE: AN INTERNATIONAL SURVEY OF STROKE PHYSICIANS**

G. Jacquin, M. Labrie, N. Daneault, Y. Deschaintre, L. Gioia, C. Odier, J. Raymond, D. Roy, C. Stapf, A. Weill, A. Poppe (*Canada*)

E-Poster Discussion: AF and Cardioembolic Stroke

Convenor: H. Christensen (*Denmark*)

18:15 **EARLY DABIGATRAN TREATMENT AFTER ISCHEMIC STROKE DOES NOT RESULT IN HEMORRHAGIC TRANSFORMATION**

A. Alrohimi, M. Sharma, K. Ng, D. Dowlatashi, B. Buck, G. Stotts, S. Thirunavukkarasu, M. Shamy, H. Kalashyan, L. Sivakumar, A. Shuaib, K. Butcher (*Canada*)

18:23 **EFFECTIVENESS AND SAFETY OF RIVAROXABAN VERSUS WARFARIN IN PATIENTS WITH NONVALVULAR ATRIAL FIBRILLATION AND A NON-SEX-RELATED CHA2DS2-VASC SCORE OF 1**

C. Coleman, A.G. Turpie, T.J. Bunz, D. Eriksson, A.K. Meinecke, N. Sood, W.L. Baker (*USA*)

18:31 **LONG-TERM IMPACT OF RESIDUAL SHUNT AFTER PATENT FORAMEN OVAL CLOSURE ON STROKE RECURRENCE**

M. Dias, P. Canhão, L. Morais, P. Batista, F. Soares, L. Sousa, T. Pinho e Melo (*Portugal*)

18:39 **12-MONTH OUTCOME IN PATIENTS WITH STROKE AND ATRIAL FIBRILLATION NOT DISCHARGED ON ANTICOAGULANT: THE WATCH-AF REGISTRY**

C. Guidoux, E. Meseguer, E. Ong, P. Lavallee, C. Hobeau, L. Monteiro Tavares, L. Cabrejo, A. Martin Bechet, R. Rigual Bobillo, N. Nighoghossian, P. Amarenco (*France*)

18:47 **3 AND 12 MONTHS FOLLOW-UP AFTER LEFT ATRIAL APPENDAGE CLOSURE IN STROKE PATIENTS**

C. Guidoux, N. Pasi, L. Monteiro Tavares, E. Meseguer, P. Lavallee, J.M. Juliard, G. Montalescot, P. Amarenco (*France*)

18:55 **CARDIOEMBOLIC VS ATHEROSCLEROTIC STROKE ETIOLOGY AND COLLATERAL STATUS IN THE MR CLEAN REGISTRY**

N.E. Le Couffe, V. Guglielmi, S.M. Zinkstok, K.J. Compagne, R. Eker, K.M. Treurniet, H.B. van der Worp, R.J. Van Oostenbrugge, D.W.J. Dippel, C.B.L.M. Majoie, Y.B.W.E.M. Roos, J.M. Coutinho (*The Netherlands*)



E-Poster Discussion: Clinical Trials Reperfusion

Convenor: R. Lemmens (*Belgium*)

- 18:15 **ERASER: FIRST THROMBECTOMY STUDY WITH PREDICTIVE ANALYTICS ENDPOINT**
J. Fiehler, H. Kniep, M. Bernhardt, M. Bendszus, M. Moehlenbruch, G. Thomalla, N. Forkert, S. Gellissen (*Germany*)
- 18:23 **FACTORS ASSOCIATED WITH GOOD FUNCTIONAL OUTCOME DESPITE LARGE POST-TREATMENT INFARCT VOLUME IN THE ESCAPE RANDOMIZED CONTROLLED TRIAL**
A. Ganesh, B.K. Menon, Z. Assis, A.M. Demchuk, F.S. Al-Ajlan, J.L. Rempel, B.W. Baxter, J. Thornton, N. Kashani, M. Goyal, M.D. Hill (*Canada*)
- 18:31 **FACTORS ASSOCIATED WITH POOR FUNCTIONAL OUTCOME DESPITE LOW POST-TREATMENT INFARCT VOLUME IN THE ESCAPE RANDOMIZED CONTROLLED TRIAL**
A. Ganesh, B.K. Menon, Z. Assis, A.M. Demchuk, F.S. Al-Ajlan, J.L. Rempel, B.W. Baxter, J. Thornton, N. Kashani, M.D. Hill, M. Goyal (*Canada*)
- 18:39 **ACUTE ISCHEMIC STROKE IN PATIENTS ON TREATMENT WITH NON-VITAMIN K ORAL ANTICOAGULANTS - SAFETY AND EFFICACY OF NOAC PLASMA-LEVEL-GUIDED THERAPY**
A. Marsch, K. Macha, S. Schwab, B. Kallmünzer (*Germany*)
- 18:47 **ADMISSION HYPERGLYCEMIA AND IMAGING OUTCOMES IN PATIENTS WITH ACUTE ISCHAEMIC STROKE UNDERGOING ENDOVASCULAR TREATMENT**
L. Posthuma, T.M. Nguyen, M. Wermer, Y.B.W.E.M. Roos, N. Kruyt, J.M. Coutinho (*The Netherlands*)
- 18:55 **AN INDIVIDUALIZED DECISION MAKING TOOL FOR USE OF STANDARD VERSUS LOW DOSE ALTEPLASE IN ACUTE ISCHEMIC STROKE**
X. Wang, Q. Li, C. Carcel, C. Delcourt, C. Anderson, M. Woodward (*Australia*)

E-Poster Discussion: Stroke Prognosis and Outcome 1

Convenor: T. Quinn (*United Kingdom*)

18:15 **MISJUDGMENT OF PRE-MORBID FUNCTIONAL STATUS ADVERSELY AFFECTS OUTCOMES IN STROKE PATIENTS UNDERGOING ENDOVASCULAR THERAPY FOR LARGE VESSEL OCCLUSION**

A. Prakapenia, T. Siepmann, J. Barlinn, A. Abramyuk, S. Winzer, L.P. Pallesen, J. Linn, V. Puetz, K. Barlinn (*Germany*)

18:23 **OUTCOME AFTER INTRAVENOUS THROMBOLYSIS IN PATIENTS WITH ACUTE LACUNAR STROKE, AN OBSERVATIONAL STUDY BASED ON THE SITS INTERNATIONAL REGISTRY**

M. Matusевичius, M. Paciaroni, V. Caso, M. Bottai, D. Khurana, M. De Bastos, S. Martins, Y. Krespi, D. Toni, N. Ahmed (*Sweden*)

18:31 **ASSOCIATION BETWEEN ONSET-TO-ARRIVAL TIME AND FUNCTIONAL OUTCOME AT DISCHARGE IN ACUTE ISCHAEMIC STROKE**

W. Muruet, B. Bray, L. Paley, C. Wolfe, A. Hoffman, A. Rudd (*United Kingdom*)

18:39 **ANATOMICAL VARIATIONS INFLUENCE STROKE PROGNOSIS AFTER THROMBECTOMY**

C. Ramos, S. Trillo, C. Aguirre, L. Martínez-Vicente, J. Villacieros, P. Alcántara, E. Bárcena, J.L. Caniego, Á. Ximénez-Carrillo, J. Vivancos (*Spain*)

18:47 **EXTERNAL VALIDATION OF THE ASTRAL STROKE RECURRENCE SCORE**

A. Zachariadis, D. Lambrou, D. Strambo, G. Schwarz, G. Sirimarco, K. Aarnio, J. Putaala, G. Ntaios, K. Vemmos, P. Michel (*Switzerland*)

18:55 **SEX DIFFERENCES IN THE RISK OF RECURRENT VASCULAR EVENTS AFTER STROKE AT YOUNG AGE IN A 12-YEAR TIME PERIOD**

J. Verhoeven, M. Ekker, K. Van Nieuwenhuizen, I. Vaartjes, C. Klijn, F.E. De Leeuw (*The Netherlands*)



E-Poster Discussion: Prevention and Risk Factors

Convenor: D. McCabe (*Ireland*)

18:15 PREDICTIVE FACTORS OF CEREBROVASCULAR EVENTS FOLLOWING CAROTID ARTERY STENTING

M.A. Gamero, F. Moniche, F. Mancha, I. Escudero-Martínez, A. Tomasello, M. Ribó, F. Delgado, J.J. Ochoa, J.A. De las Heras, J.C. Gómez-Sánchez, J. Zamarro, G. Parrilla, M. González-Delgado, E. Murias, J. Gil, R. Gil-Gimeno, A. Luna, A. Gil-García, J. Montaner, A. González (*Spain*)

18:23 THE ADVERSE EFFECT OF MULTIPLE COMORBIDITY ON FUNCTIONAL OUTCOME IN PATIENTS WITH ISCHEMIC STROKE OR TRANSIENT ISCHEMIC ATTACK

H.Y. Jeong, T.J. Kim, H. Mo, C.H. Lee, Y. Kim, S.B. Ko, B.W. Yoon (*Republic of Korea*)

18:31 RISK FACTORS FOR INFARCT GROWTH IN PATIENTS WITH ACUTE ISCHEMIC STROKE

P. Konduri, A. Bucker, A. Boers, O. Berkhemer, J. Bot, A. Yoo, W.V. Zwam, R.V. Oostenbrugge, A.V.D. Lugt, D. Dippel, Y. Roos, C. Majoie, H. Marquering (*The Netherlands*)

18:39 PREVALENCE OF PATENT FORAMEN OVALE IN CRYPTOGENIC STROKE AT OLDER AGES: A POPULATION-BASED TRANSCRANIAL DOPPLER STUDY

S. Mazzucco, L. Li, L. Binney, P.M. Rothwell (*United Kingdom*)

18:47 A COMPARISON OF NATIONAL GUIDELINES FOR SECONDARY PREVENTION OF ISCHAEMIC STROKE

R. Mullis, M. Sola Garcia, A. De Simoni, I. Wellwood, S. Chowienczyk, Q. Nguyen, D. Pindus, E. Kreit, J. Mant (*United Kingdom*)

18:55 IMPACT OF SHORT-TERM EXPOSURE TO TRAFFIC-RELATED AIR POLLUTION ON ISCHEMIC STROKE SEVERITY AND MORTALITY

R.M. Vivanco-Hidalgo, X. Basagaña, P. De Ceballos, A. Zabalza, A. Gomez Gonzalez, C. Soriano-Tarraga, E. Giralte-Steinhauer, J. Jimenez-Conde, X. Querol, J. Roquer (*Spain*)

E-Poster Discussion: Rehabilitation

Convenor: J. Bernhardt (*Australia*)

18:15 **INTRATHECAL BACLOFEN THERAPY IMPROVES PATIENT-REPORTED OUTCOMES IN SEVERE POST-STROKE SPASTICITY: THE SISTERS STUDY**

G. Cloud, M. Creamer, P. Kossmehl, M. Yochelson, G. Francisco, A.B. Ward, J. Wissel, M. Zampolini, A. Calabrese, A. Abouihia, L. Saltuari (*Australia*)

18:23 **LONG TERM SYNERGISTIC EFFECT OF COMBINING MLC601 AND REHABILITATION ON POST-STROKE RECOVERY -THE CHIMES-E STUDY**

C. Chen, N.C. Suwanwela, F.L. Chun, S.H. Young, S.T. San, T. Umapathi, A.Y. Lao, H.H. Gan, H.M. Chang, J.M. Advincula, S. Muengtaweepongsa, B.P.L. Chan, C.L. Chua, N. Wijekoon, H.A. De Silva, J.H.B. Hiyadan, K.S.L. Wong, N. Pongvarin, B.E. Gaik, N. Venketasubramanian (*Singapore*)

18:31 **'CREATE' COLLABORATIVE REHABILITATION ENVIRONMENTS IN ACUTE STROKE – AN EXPERIENCE-BASED CODESIGN APPROACH (EBCD) TO INCREASING ACTIVITY OF STROKE PATIENTS IN FOUR HOSPITALS IN ENGLAND**

K. Gombert, F. Jones, G. Cloud, C. McKeivitt, D. Clarke, S. Honey, R. Harris, G. Robert, A. McDonald (*Australia*)

18:39 **IMPROVED ACCESS TO INPATIENT STROKE REHABILITATION FOR THOSE WITH COGNITIVE IMPAIRMENT FOLLOWING SUPPORTED IMPLEMENTATION OF A COGNITIVE STRATEGY BASED APPROACH**

E. Linkewich, J. Rios, M. Donald, D. Dawson, A. Hunt, S. Quant, S. Runions, S. McEwen (*Canada*)

18:47 **A NOVEL APHASIA TRAINING BASED ON BRAIN-COMPUTER INTERFACES**

M. Musso, D. Hübner, S. Schwarzkopf, W. Cornelius, M. Tangermann (*Germany*)

18:55 **A RANDOMIZED TRIAL OF A SOCIAL WORKER LED HOME-BASED CASE MANAGEMENT TO IMPROVE OUTCOMES FOR CAREGIVERS OF ACUTE STROKE PATIENTS DURING THE TRANSITION PERIOD**

M. Reeves (*USA*)



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SCIENTIFIC PROGRAMME

THURSDAY, 17 MAY 2018

8:30 - 10:00

Hall C

Scientific Session: Future Directions on Thrombolysis

Convenors: N.G. Wahlgren (*Sweden*)
D. Jovanovic (*Serbia*)

8:30 **TENECTEPLASE, ALTEPLASE OR DESMOTTEPLASE?**

N. Logallo (*Norway*)

8:45 **THROMBOLYSIS IN PATIENTS WITH MINOR STROKE: DO WE NEED A RCT?**

J. Ferrari (*Austria*)

9:00 **INTRAVENOUS THROMBOLYSIS IN PATIENTS ON DOACS: RISKS AND BENEFITS**

D. Seiffge (*Switzerland*)

9:15 **INTRAVENOUS THROMBOLYSIS IN PATIENTS WITH SEVERE STROKE: STILL BENEFICIAL?**

D. Toni (*Italy*)

9:30 **THROMBOLYSIS IN WAKE-UP STROKE PATIENTS AFTER THE DAWN TRIAL: STILL AN OPTION?**

G. Thomalla (*Germany*)

9:45 **DISCUSSION**

Allied Health Care Session: Aphasia Treatment in Stroke Patients; Which Parameters are Effective?

Convenors: F. Nouwens (*The Netherlands*)
A.C. Laska (*Sweden*)

8:30 **BRAIN PLASTICITY AND LANGUAGE REHABILITATION IN APHASIC STROKE PATIENTS**

J. Crinion (*United Kingdom*)

8:45 **UNRAVELLING THE BLACK BOX OF EFFECTIVE APHASIA TREATMENT; EVIDENCE FROM PREVIOUS RCTS**

F. Nouwens (*The Netherlands*)

9:00 **VERSE: PRIMARY EFFICACY RESULTS OF VERY EARLY, INTENSIVE REHABILITATION OF SPEECH TRIAL**

E. Godecke (*Australia*)

9:15 **APHASIA TRIAL FCET2EC ON SPEECH THERAPY IN CHRONIC STROKE PATIENTS**

S. Abel (*United Kingdom*)

9:30 **BIG CACTUS: CLINICAL AND COST EFFECTIVENESS OF SELF-MANAGED COMPUTERISED APHASIA THERAPY IN THE CHRONIC PHASE**

R. Palmer (*United Kingdom*)

9:45 **DISCUSSION**



Scientific Communication: Large Vessel Disease

Convenors: P. Wester (*Sweden*)

T. Jovin (*USA*)

8:30 **12 MONTHS RISK OF RECURRENT STROKE IN PATIENTS WITH SYMPTOMATIC CAROTID NEAR-OCCLUSION. RESULTS FROM CAOS, A MULTICENTER REGISTRY STUDY**

A. Garcia Pastor, A. Gil-Núñez, J.M. Ramírez-Moreno, N. González-Nafria, J. Tejada, F. Moniche, J.C. Portilla-Cuenca, P. Martínez-Sánchez, B. Fuentes, M.Á. Gamero-García, M. Alonso de Leciñana, D. Cánovas-Verge, Y. Aladro, L.M. Aida, A.M. De Arce-Borda, M. Usero-Ruiz, R. Delgado-Mederos, A. Pampliega, Á. Ximenez-Carrillo, M. Bártulos-Iglesias (*Spain*)

8:40 **VALUE OF TRANSCRANIAL DOPPLER SONOGRAPHY IN HYPERPERFUSION SYNDROME POST- CAROTID ANGIOPLASTY AND STENTING (HISPANIAS STUDY): RESULTS FROM A NATIONWIDE PROSPECTIVE STUDY**

F. Moniche, E. Zapata-Arriaza, F. Mancha, I. Escudero-Martínez, A. Tomaselo, M. Ribo, F. Delgado, J.J. Ochoa, J. Zamarro, G. Parrilla, M.D. González Delgado, E. Murias, J. Gil, R. Gil, A. Luna, A. Gil, S. Mosteiro, J. Montaner, A. Gonzalez (*Spain*)

8:50 **SHORT-TERM SAFETY OF CAROTID REVASCUARISATION IN PATIENTS WITH A HISTORY OF CORONARY HEART DISEASE**

E. Volkers, A. Algra, L.J. Kappelle, J.P. Becquemín, M.M. Brown, R. Bulbulia, D. Calvet, H.H. Eckstein, G. Fraedrich, J. Gregson, A. Halliday, J. Hendrikse, G. Howard, O. Jansen, G. Roubin, T. Brott, L. Bonati, J.L. Mas, P.A. Ringleb (*The Netherlands*)

9:00 **SAFETY OF URGENT ENDARTERECTOMY PERFORMED WITHIN TWO DAYS FROM THE INDEX EVENT IN PATIENTS WITH SYMPTOMATIC CAROTID ARTERY STENOSIS: AN INTERNATIONAL MULTICENTER STUDY**

A. Roussopoulou, C. Krogias, A. Lazaris, K. Moulakakis, G. Georgiadis, R. Mikulik, J. Kakisis, M. Chondrogianni, C. Liantinioti, C. Zompola, T. Hummel, M. Lazarides, G. Geroulakos, S. Vasdekis, G. Tsigoulis (*Greece*)

9:10 **LONG-TERM OUTCOME AFTER CAROTID ENDARTERECTOMY**

K. Joshua, A.C. Laska, M. Jonsson (*Sweden*)

9:20 **RISK OF DEATH AND STROKE IN 19,000 PATIENTS UNDERGOING CAROTID ENDARTERECTOMY OR STENTING: AN ANALYSIS OF THE DR FOSTER GLOBAL COMPARATORS' DATASET**

K. Gaba, P. Chana, M. Landray, A. Halliday, R. Bulbulia (*United Kingdom*)

- 9:30 **SPONTANEOUS REGRESSION OF RECURRENT STENOSIS FROM NEOINTIMAL HYPERPLASIA IN LONG-TERM FOLLOW-UP AFTER CAROTID PATCH ENDARTERECTOMY**
S. Hause, L. Poser, H. Andresen, J. Neumann, A. Breja, S. Schreiber, H.J. Heinze, Z. Halloul, M. Görtler (*Germany*)
- 9:40 **ASSOCIATIONS BETWEEN STENT DESIGN, RESTENOSIS AND RECURRENT STROKE AFTER CAROTID ARTERY STENTING IN THE INTERNATIONAL CAROTID STENTING STUDY (ICSS)**
M.D. Müller, J. Gregson, D. McCabe, P.J. Nederkoorn, H.B. van der Worp, G.J. De Borst, T. Cleveland, T. Wolff, S.T. Engelter, P. Lyrer, M. Brown, L.H. Bonati (*Switzerland*)
- 9:50 **MR-DETECTED CAROTID INTRA-PLAQUE HAEMORRHAGE AND RISK OF STROKE IN PATIENTS WITH SYMPTOMATIC AND ASYMPTOMATIC CAROTID STENOSIS: AN INDIVIDUAL PATIENT-DATA META-ANALYSIS**
L. Bonati, A. Schindler, R. Schinner, N. Altaf, A. Hosseini, L. Esposito-Bauer, N. Singh, R. Kwee, Y. Kurosaki, S. Yamagata, K. Yoshida, S. Miyamoto, R. Maggisano, J. Ricke, A. Moody, H. Poppert, E. Kooi, D. Auer, T. Saam (*Switzerland*)

8:30 - 10:00

Hall H

Scientific Communication: Small Vessel Disease

Convenors: D. Werring (*United Kingdom*)
F. Fazekas (*Austria*)

- 8:30 **CHILDHOOD IQ, EDUCATION AND CHILDHOOD SOCIOECONOMIC STATUS AND LATE LIFE BURDEN OF CEREBRAL SMALL VESSEL DISEASE IN 4 COHORT STUDIES**
E. Backhouse, S.D. Shenkin, A. McIntosh, I. Deary, M. Bastin, H. Whalley, A. Sandu-Giuraniuc, A.D. Murray, S.R. De Rooij, T.J. Roseboom, J.M. Wardlaw (*United Kingdom*)
- 8:40 **ARE ACUTE INCIDENTAL INFARCTS THE CAUSE OF CEREBRAL SMALL VESSEL DISEASE? A HIGH-FREQUENCY SERIAL IMAGING STUDY**
A. Ter Telgte, K. Wiegertjes, A. Tuladhar, B. Gesierich, J. Marques, M. Huebner, F. Schreuder, H. Kuijf, S. Ropele, C. Klijn, D. Norris, M. Duering, F.E. De Leeuw (*The Netherlands*)
- 8:50 **CONVERSION INTO WHITE MATTER HYPERINTENSITIES PRECEDED BY HETEROGENEITY AND DECLINE OF WHITE MATTER MICROSTRUCTURAL INTEGRITY OVER TIME**
E. Van Leijssen, M. Bergkamp, I. Van Uden, M. Ghafoorian, H. Van der Holst, D. Norris, B. Platel, A. Tuladhar, F.E. De Leeuw (*The Netherlands*)



- 9:00 **BASAL GANGLIA ATROPHY IN CEREBRAL AMYLOID ANGIOPATHY**
P. Fotiadis, M. Pasi, A. Charidimou, K. Schwab, J. Rosand, A. Viswanathan, M.E. Gurol, S. Greenberg (*USA*)
- 9:10 **CADASIL ENCEPHALOPATHY IN A LARGE COHORT OF BRITISH CADASIL PATIENTS**
A. Drazyk, R. Tan, J. Tay, M. Traylor, T. Das, H. Markus (*United Kingdom*)
- 9:20 **CLINICAL CORRELATES OF LONGITUDINAL MRI CHANGES IN CADASIL**
Y. Ling, F. De Guio, E. Jouvent, M. Duering, D. Hervé, J.P. Guichard, O. Godin, M. Dichgans, H. Chabriat (*France*)
- 9:30 **INTRACRANIAL HEMORRHAGE IN CADASIL**
P. Palazzo, J. Prigent, G. Le Guyader, M. Lamy, A. Berthomet, P. Agius, A. Romulus, J.P. Neau (*France*)
- 9:40 **NEW CEREBRAL MICROBLEEDS AFTER INTRAVENOUS THROMBOLYSIS IN PATIENTS WITH ACUTE ISCHEMIC STROKE**
T.B. Braemswig, K. Villringer, G. Turc, H. Erdur, J.B. Fiebach, H.J. Audebert, M. Endres, C.H. Nolte, J.F. Scheitz (*Germany*)
- 9:50 **SMALL VESSEL DISEASE AND CLINICAL OUTCOMES AFTER ENDOVASCULAR TREATMENT IN ACUTE ISCHEMIC STROKE**
F. Arba, G.D. Testa, S. Mangiafico, N. Limbucci, S. Nappini, G. Pracucci, P. Nencini, D. Inzitari (*Italy*)

Scientific Communication: Rehabilitation and Recovery

Convenors: J. Glahn (*Germany*)
M. Walker (*United Kingdom*)

8:30 **RESULTS OF LARGE CLINICAL TRIAL "DEVELOPMENT OF MEDICAL REHABILITATION IN RUSSIA": PATIENT-ORIENTED, MULTIDISCIPLINARY AND PROBLEM-FOCUSED MODEL OF REHABILITATION PATIENTS WITH STROKE OR CEREBRAL HEMORRHAGE**

G. Ivanova, N. Shamalov, E. Melnikova, A. Belkin, D. Khasanova, S. Prokopenko, R. Bodrova, A. Shmonin, E. Verbitskay (*Russia*)

8:40 **THE EFFECTS OF MIRROR AND NON-MIRROR VISUAL FEEDBACK CONDITIONS DURING UNILATERAL EXERCISE TRAINING ON CONTRALATERAL STRENGTH AND PASSIVE JOINT POSITION SENSE**

H. Denizoglu Kulli, E. Durgut, K. Alpay (*Turkey*)

8:50 **INTERNATIONAL CONSENSUS RECOMMENDATIONS FOR OUTCOME MEASURE USE IN STROKE UPPER LIMB REHABILITATION TRIALS: DEVELOPMENT OF THE STANDARDISING MEASUREMENTS IN ARM REHABILITATION TRIALS (SMART) TOOLBOX**

J. Duncan Millar, F. Van Wijck, A. Pollock, M. Ali (*United Kingdom*)

9:00 **TRANSCUTANEOUS ELECTRICAL STIMULATION IMPROVES THE SWALLOW SAFETY AND REDUCES THE NEED OF FLUID THICKENING IN PATIENTS WITH CHRONIC POST-STROKE OROPHARYNGEAL DYSPHAGIA**

V. Arreola, D. Alvarez-Berdugo, L. Rofes, E. Palomera, N. Tomsen, O. Ortega, D. Muriana, E. Palomeras, P. Clavé (*Spain*)

9:10 **DYNAMIC LYCRA ORTHOSIS AS AN ADJUNCT TO UPPER LIMB REHABILITATION AFTER STROKE: A FEASIBILITY RANDOMISED CONTROLLED TRIAL**

J. Morris, A. John, L. Wedderburn (*United Kingdom*)

9:20 **SAFETY OF EARLY USE ABOBOTULINUMTOXINA (DYSPORT) IN ADULTS WITH POST-STROKE SPASTICITY: RESULTS FROM THE ONTIME AND ABCDE-S STUDIES**

R. Rosales, K.H. Kong, W. Kumthornthip, M. Mazlan, L. Abdul Latif, M.M.D. De Los Santos, C. Chotiyarnwong, P. Tanvijit, O. Nuez, P. Maisonobe, K.J. Goh, J. Balcietiene (*Philippines*)

9:30 **A PILOT STEPPED-WEDGE, CLUSTER RANDOMISED-CONTROLLED-TRIAL (RCT) OF THE EFFECTIVENESS OF AN ORAL HEALTH CARE (OHC) INTERVENTION COMPARED TO STANDARD CARE IN STROKE WARDS (SOCLE II)**

M. Brady, D.J. Stott, C. Campbell, M.P. Sweeney, C.J. Weir, C. Donaldson, A. Pollock, J. Barr, M. Barr, P. Langhorne, N. Bowers, S. McGowan, C. Keerie, H. Gray, B. Bain, M. Collins (*United Kingdom*)



9:40 **RECOVERY OF DEXTERITY AFTER STROKE: A LONGITUDINAL STUDY OF PRECISION GRIP FORCE CONTROL AND RELATION TO BRAIN LESION LOCATION**

G.V. Pennati, J. Plantin, L. Carment, J. Borg, P. Lindberg (Sweden)

9:50 **VOJTA THERAPY IMPROVES POSTURAL CONTROL AND MOTOR FUNCTION IN EARLY REHABILITATION OF ACUTE STROKE PATIENTS – A RANDOMIZED CONTROLLED PILOT TRIAL**

C. Epple, B. Maurer-Burkhard, M.C. Lichti, J. Schmidt, T. Steiner (Germany)

8:30 - 10:00

Hall K2

Scientific Session: Stroke in the Young



Webcasting

Convenors: J. Putaala (Finland)

L. Gerstl (Germany)

8:30 **GLOBAL TRENDS IN YOUNG STROKE**

A. Rosengren (Sweden)

8:45 **EVOLUTION OF STROKE AETIOLOGY FROM CHILDHOOD TO VERY EARLY ADULTHOOD**

M. Steinlin (Switzerland)

9:00 **YOUNG STROKE: A RARE EVENT DUE TO COMMON RISK FACTORS OR A COMMON DISEASE WITH RARE CAUSES?**

L. Rutten-Jacobs (United Kingdom)

9:15 **STROKE IN THE YOUNG DUE TO ILLICIT DRUG USE**

V. Wolff (France)

9:30 **LONG-TERM PROGNOSIS OF STROKE IN THE YOUNG**

M. Ekker (The Netherlands)

9:45 **DISCUSSION**

Scientific Session: Imaging: Ischemic stroke – ICH - Carotid Joint ESO - ESNR Session

Convenors: T. Andersson (*Belgium*)
M. Holtmannspötter (*Denmark*)

- 8:30 **PROGNOSTIC VALUE OF IMAGING IN ACUTE INTRACEREBRAL HAEMORRHAGE**
G. Boulouis (*France*)
- 8:45 **PERSONALIZED MEDICINE IN STROKE: PREDICTION OF OUTCOME BY IMAGING**
R. Wiest (*Switzerland*)
- 9:00 **CLOT IMAGING IN STROKE PATIENTS: READY FOR CLINICAL USE?**
V. Costalat (*France*)
- 9:15 **CAROTID ARTERY IMAGING: LUMEN AND PLAQUE**
A. van der Lugt (*The Netherlands*)
- 9:30 **IMAGING IN ACUTE STROKE: WHAT WILL LEAD US INTO THE NEAR FUTURE?**
M. Parsons (*Australia*)
- 9:45 **DISCUSSION**



Workshop: Hands-On Neurosonology- Joint ESO-ESNCH Workshop-PART 1

TICKET *Pre-registration required*

Convenors: E. Bartels (*Germany*)
C. Kremer (*Sweden*)

8:30 **ASSESSMENT OF THE CAROTID SYSTEM**

D. Skoloudik (*Czech Republic*)

8:50 **ASSESSMENT OF INTRACRANIAL CIRCULATION**

E. Bartels (*Germany*)

9:10 **EVALUATION OF THE COLLATERAL CIRCULATION**

M. Vosko (*Austria*)

9:30 **MICROEMBOLI DETECTION**

C. Kremer (*Sweden*)

9:50 **DISCUSSION**

8:30 - 10:00

Hall J2

Teaching Course: Embolic Causes of Stroke

 *Pre-registration required*

Convenors: V. Thijs (*Australia*)
K. Nedeltchev (*Switzerland*)

8:30 **WHICH PATIENTS ARE GOOD CANDIDATES FOR LONG-TERM AF DETECTION?**

V. Thijs (*Australia*)

8:50 **AORTIC SOURCES OF EMBOLISM (AORTIC MURAL THROMBI, RETROGRADE AORTIC EMBOLISM AND CO)**

A. Harloff (*Germany*)

9:10 **PARADOXICAL EMBOLISM – WHAT DO THE NEW PFO CLOSURE TRIALS TELL US?**

K. Nedeltchev (*Switzerland*)

9:30 **VENOUS/ARTERIAL AIR AND FAT EMBOLISM**

C. Ferreira (*Portugal*)

9:50 **DISCUSSION**

10:00 - 10:30

Exhibition Area

Coffee Break, Exhibition, Poster Viewing

10:30 - 12:00

Hall C

Scientific Session: Controversies in Stroke

 *Voting*

Convenors: A. Dávalos (*Spain*)
P. Santalucia (*Italy*)

SHOULD PATIENTS WITH SUSPICION OF LVO BE TRANSFERRED TO THE STROKE CENTER, BYPASSING THE NEXT STROKE UNIT?

10:30 **PRO**

G. Ford (*United Kingdom*)

10:45 **CON**

M. Ribo (*Spain*)



PATIENTS WITH MILD SYMPTOMS AND OCCLUSION OF A PROXIMAL INTRACRANIAL ARTERY SHOULD HAVE IAT

11:00 **PRO**

J. Gralla (*Switzerland*)

11:15 **CON**

Á. Chamorro (*Spain*)

PFO CLOSURE IN CRYPTOGENIC STROKE: SHOULD BECOME ROUTINE FOR SECONDARY STROKE PREVENTION

11:30 **PRO**

M. Mono (*Switzerland*)

11:45 **CON**

P. Rothwell (*United Kingdom*)

10:30 - 12:00

Hall E1

Allied Health Care Session: Post-Stroke Dysphagia – from Pathophysiology to Clinical Consideration

Convenors: E. Michou (*United Kingdom*)

R. Dziewas (*Germany*)

10:30 **POST-STROKE DYSPHAGIA - LESION SITE OR LESION SIZE?**

R. Dziewas (*Germany*)

10:45 **DYSPHAGIA MANAGEMENT ON THE STROKE UNIT - WHO DOES WHAT?**

M. Walshe (*Ireland*)

11:00 **FEES ON THE STROKE UNIT - WHEN AND HOW?**

A. Schindler (*Italy*)

11:15 **ORAL HEALTH IN STROKE PATIENTS - DO WE HAVE TO CARE?**

C. Smith (*United Kingdom*)

11:30 **CHRONIC DYSPHAGIA POST STROKE - IS THERE STILL HOPE?**

E. Michou (*United Kingdom*)

11:45 **DISCUSSION**

Scientific Communication: Sex Influences and Stroke

Convenors: V. Feigin (*New Zealand*)
F.R. Pezzella (*Italy*)

10:30 **DO WOMEN RECEIVE EQUIVALENT ACUTE STROKE CARE TO MEN? A NATIONAL STROKE REGISTRY STUDY**

G. Dunn, B. Bray, M. James, A. Hoffman, L. Paley, K. Stanley, V. McCurran, M. Kavanagh, A. Rudd (*United Kingdom*)

10:40 **SEX DIFFERENCES IN INTRACRANIAL AND EXTRACRANIAL ATHEROSCLEROSIS IN PATIENTS WITH ACUTE ISCHAEMIC STROKE**

S. Voigt, H.J.A. Van Os, M.A.A. Van Walderveen, I.C. Van der Schaaf, L.J. Kappelle, A. Broersen, B.K. Velthuis, P.A. De Jong, R. Kockelkoren, A. Algra, M.J.H. Wermer (*The Netherlands*)

10:50 **ENDOVASCULAR THERAPY AND GENDER DISPARITIES IN STROKE OUTCOMES**

C.M. Barreira, M. Bouslama, A.R. Al-Bayati, D.C. Haussen, J.A. Grossberg, S.R. Belagaje, N.A. Bianchi, M.R. Frankel, R.G. Nogueira (*USA*)

11:00 **SEX DIFFERENCES IN THE OUTCOMES AFTER MECHANICAL THROMBECTOMY AND THROMBOLYSIS - META-ANALYSIS BY THE STROKE IN WOMEN GUIDELINE MODULE**

C. Kremer, J. Dawson, S. Lorenzano, A. Lal, Y. Bejot, C. Epple, M.L. Mono, V. Caso (*Italy*)

11:10 **SEX-RELATED DIFFERENCES IN CLINICAL CHARACTERISTICS, TREATMENT AND OUTCOMES IN PATIENTS WITH ATRIAL FIBRILLATION AND SECONDARY STROKE PREVENTION WITH NOACS: RESULTS FROM THE RAF-NOACS STUDY**

M.G. Mosconi, V. Caso, M. Paciaroni (*Italy*) On behalf of RAF investigators

11:20 **DIFFERENCES BETWEEN MEN AND WOMEN WITH ISCHEMIC STROKE WITH AND WITHOUT PRE-STROKE DEMENTIA**

E. Zupanic, S. Garcia-Ptacek, I. Kåreholt, D. Religa, M. Kramberger, B. Norrving, M. Eriksdotter, M. Von Euler (*Sweden*)

11:30 **GENDER DIFFERENCES IN POST-STROKE DEPRESSION: A LONGITUDINAL ANALYSIS**

K. Werheid, S. Ladwig, M. Volz (*Germany*)

11:40 **SEX DIFFERENCES IN TRAJECTORIES OF DEPRESSION SYMPTOMS AND ASSOCIATIONS WITH 10 YEARS MORTALITY IN STROKE PATIENTS: THE SOUTH LONDON STROKE REGISTER**

S. Ayis, A.G. Rudd, L. Ayerbe, C.D. Wolfe (*United Kingdom*)

11:50 **SEX DIFFERENCES IN PREVALENCE OF POST-STROKE DEPRESSION**

L. Dong, B. Sánchez, E. Stulberg, L. Morgenstern, L. Lisabeth (*USA*)



Scientific Session: Stroke Genetics & Omics

Convenors: M. Castellanos (*Spain*)

C. Foerch (*Germany*)

10:30 **BLOOD-BASED PROTEIN BIOMARKERS: CLINICAL APPLICATIONS AND WHAT'S IN THE PIPELINE?**

J. Montaner (*Spain*)

10:45 **TRANSCRIPTOMICS AND MICRORNAS: HOW CAN I USE THEM IN MY STROKE PATIENT?**

G. Jickling (*USA*)

11:00 **THE NEXT BIG THING: METABOLOMICS AND MULTI-LEVEL OMICS**

S. Tiedt (*Germany*)

11:15 **NOVEL GENES FOR STROKE: IMPLICATIONS FOR DRUG DISCOVERY**

M. Traylor (*United Kingdom*)

11:30 **HOW TO APPROACH A PATIENT WITH SUSPECTED MONOGENIC STROKE**

H. Chabriat (*France*)

11:45 **DISCUSSION**

Scientific Communication: Risk Factors in Stroke

Convenors: L.J. Kappelle (*The Netherlands*)

L. Rosengren (*Sweden*)

- 10:30 **THE BARCELONA-ASYMPTOMATIC INTRACRANIAL ATHEROSCLEROSIS (ASIA) STUDY: INTRACRANIAL ATHEROSCLEROSIS AS PREDICTOR OF LONG-TERM VASCULAR EVENTS**
E. López-Cancio, A. Planas-Ballvé, L. Martin, M. Hernández-Pérez, T. Canento, A.M. Crespo, L. Dorado, M. Alzamora, P. Toran, J.F. Arenillas, M. Millán, A. Dávalos (*Spain*)
- 10:40 **STROKE INCIDENCE AND RISK FACTORS OVER 44-YEARS - THE PROSPECTIVE POPULATION STUDY OF WOMEN IN GOTHENBURG**
A. Blomstrand, V. Sundh, C. Blomstrand, C. Björkelund (*Sweden*)
- 10:50 **RISK FACTORS FOR SPONTANEOUS INTRACEREBRAL HEMORRHAGE**
E. Svensson, M. Söderholm, G. Engström (*Sweden*)
- 11:00 **SELECTIVE SEROTONIN REUPTAKE INHIBITORS AND RISK OF INTRACEREBRAL HAEMORRHAGE**
M. Jensen, O. Ziff, G. Banerjee, G. Ambler, D. Werring (*United Kingdom*)
- 11:10 **THE ASSOCIATIONS OF STROKE AND CANCER USING REGISTRY-BASED DATA**
K. Tang, D. De Silva, K.K. Queck, S.E. Saffari (*Singapore*)
- 11:20 **POPULATION-BASED STUDY OF PREVALENCE AND PROGNOSTIC VALUE OF NOCTURNAL BP DIPPING PATTERNS IN TIA/STROKE SUBTYPES**
M. Kubiak, N. Lovett, R. Wharton, P.M. Rothwell for the Oxford Vascular Study (*United Kingdom*)
- 11:30 **BLOOD PRESSURE TRAITS DIFFERENTIALLY AFFECT RISK OF DIFFERENT ISCHAEMIC STROKE SUBTYPES**
D. Gill (*United Kingdom*)
- 11:40 **CAUSAL IMPACT OF TYPE 2 DIABETES ON CEREBRAL SMALL VESSEL DISEASE: A MENDELIAN RANDOMIZATION ANALYSIS**
J. Liu, L.R. Jacobs, M. Liu, H. Markus, M. Traylor (*China*)
- 11:50 **IMPORTANCE OF BLOOD PRESSURE VARIABILITY FOR THE EFFECT OF VALSARTAN VERSUS AMLODIPINE ON CARDIOVASCULAR EVENTS AND DEATH**
M.H. Mehlum, K. Liestøl, S.E. Kjeldsen, S. Julius, T.A. Hua, P.M. Rothwell, G. Mancia, G. Parati, M.A. Weber, E. Berge (*Norway*)



Scientific Session: Global Perspectives of Stroke Joint ESO - WSO Session



Webcasting

Convenors: J. Kõrv (*Estonia*)
M. Brainin (*Australia*)

10:30 **PRIMARY PREVENTION OF STROKE: A GLOBAL CHALLENGE**

P. Sandercock (*United Kingdom*)

10:43 **HIV AND RISK OF STROKE**

R. Akinyemi (*Nigeria*)

10:56 **CHALLENGES OF FUNCTIONAL RECOVERY AFTER STROKE IN SUB-SAHARAN AFRICA**

A. Bryer (*South Africa*)

11:09 **SALT REDUCTION AND STROKE – AN IMPORTANT PUBLIC HEALTH STRATEGY?**

B. Norrving (*Sweden*)

11:22 **LESSONS FROM THE STROKE BELT PHENOMENON**

A.S. Kim (*USA*)

11:35 **BURDEN OF STROKE IN LATIN AMERICA: HOW DOES IT DIFFER?**

P.M. Lavados (*Chile*)

11:48 **DISCUSSION**

Scientific Communication: Reperfusion II

Convenors: H. Mattle (*Switzerland*)
G. Donnan (*Australia*)

10:30 **IMPACT OF BASELINE ALBERTA STROKE PROGRAM EARLY CT SCORE ON CLINICAL OUTCOMES OF ENDOVASCULAR TREATMENT**

M. Kappelhof, I.G.H. Jansen, A.J. Yoo, L.F.M. Beenen, S. Roosendaal, M.J. Mulder, J. Martens, A.A. Postma, D.W.J. Dippel, H. Lingsma, W.H. Van Zwam, O.A. Berkhemer, C.B.L.M. Majoie (*The Netherlands*)

10:40 **VALIDATION OF THE CLINICAL / CORE MISMATCH AND PERFUSION / CORE MISMATCH SELECTION CRITERIA FOR LATE WINDOW THROMBECTOMY: POOLED ANALYSIS OF DEFUSE 3 AND DAWN**

G.W. Albers, R. Nogueira, M. Marks, T. Jovin, M. Lansberg (*USA*)

10:50 **REAL WORLD IMAGING SELECTION FOR ENDOVASCULAR THROMBECTOMY IN EARLY AND LATE TIME WINDOWS: A COMPARISON OF SIMPLE VERSUS ADVANCED PERFUSION IMAGES IN THE TREVO REGISTRY**

A. Sarraj, A. Hassan, B. Bartolini, J. Grotta, A. Krajina, E. Veznedaroglu, J. English, D. Liebeskind, R. Nogueira, B. Baxter, R. Budzik, N. Vora, M. Chen, R. Shields, Y. Zhang, A. Malek, L.D. McCullough, S. Savitz, R. Gupta (*USA*)

11:00 **ENDOVASCULAR TREATMENT 6 TO 24 HOURS AFTER STROKE: OUTCOMES OF PATIENTS FULFILLING DAWN OR DEFUSE-3 CRITERIA COMPARED WITH PATIENTS TREATED OUT OF CLINICAL TRIALS CRITERIA**

A. Ramos Pachón, M. Hernández-Pérez, M. Millan Torne, L. Dorado Bouix, M. Gomis Cortina, M. Gea Rispal, M. Terceño, S. Remollo, C. Castaño, A. Dávalos Errando, N. Pérez de la Ossa Herrero (*Spain*)

11:10 **PERFORMANCE OF THE MADRID-DIRECT (DIRECT REFERRAL TO ENDOVASCULAR CENTER) PREHOSPITAL SCALE IN IDENTIFYING POTENTIAL THROMBECTOMY CANDIDATES. ANALYSIS OF 620 CONSECUTIVE PATIENTS**

J. Rodriguez-Pardo, N. Riera-López, B. Fuentes, J. Álvarez-Fraga, V. Real-Martinez, M. Alonso de Leciana, J. Carneado-Ruiz, J. Díaz-Guzmán, J. Egado-Herrero, A. Gil-Núñez, J. Masjuan, J.A. Vivancos-Mora, P. Busca-Ostolaza, E. Diez-Tejedor (*Spain*)

11:20 **ELIGIBILITY FOR LATE THROMBECTOMY USING STRICT (DAWN) AND LIBERAL SELECTION CRITERIA IN A PRIMARY AND COMPREHENSIVE STROKE CENTER**

S. Nannoni, D. Strambo, G. Sirimarco, A. Eskandari, G. Saliou, V. Dunet, M. Wintermark, P. Michel (*Switzerland*)



- 11:30 **LARGE-SCALE ANALYSIS OF OUTCOMES AFTER ENDOVASCULAR STROKE THERAPY OVER A 10-YEAR PERIOD IN HIGH VERSUS LOW VOLUME CENTERS**
 H. Saber, T. Daileida, P.R. Chen, A.J. Yoo, F. Vahidy, S.I. Savitz, S.A. Sheth (USA)
- 11:40 **ENDOVASCULAR THERAPY IN PATIENTS WITH HIGH BASELINE DISABILITY: A TREVO REGISTRY ANALYSIS**
 R.G. Nogueira, M. Bouslama, E. Veznedaroglu, B. Bartolini, B. Baxter, R. Budzik, J. English, G. Rishi, A. Krajina, R. Shields, D. Liebeskind (USA)
- 11:50 **VESSEL WALL ENHANCEMENT ON CONTRAST-ENHANCED MAGNETIC RESONANCE IMAGING AFTER THROMBECTOMY IN ACUTE ISCHEMIC STROKE: ROLE OF DIFFERENT THROMBECTOMY TECHNIQUES**
 A. Renú, C. Laredo, N. Macías, A. Lopez-Rueda, L. Llull, X. Urra, S. Rudilosso, V. Obach, A. Chamorro, S. Amaro (Spain)

10:30 - 12:00

Hall J1

Workshop: Hands-On Neurosonology - Joint ESO - ESNCH Workshop-PART 2

TICKET *Pre-registration required*

- Convenors: E. Bartels (Germany)
 C. Kremer (Sweden)
- Demonstrators: D. Skoloudik (Czech Republic)
 M. Vosko (Austria)

10:30 - 12:00

Hall J2

Teaching Course: Cerebral Venous Thrombosis

TICKET *Pre-registration required*

Convenors: J. Coutinho (*The Netherlands*)
D. Aguiar Sousa (*Portugal*)

10:30 **PITFALLS IN CLINICAL AND RADIOLOGICAL DIAGNOSIS OF VENOUS THROMBOSIS**
S. Silvis (*The Netherlands*)

10:50 **HOW AND HOW LONG TO ANTICOAGULATE IN CSVT**
D. Aguiar Sousa (*Portugal*)

11:10 **ENDOCASCULAR TREATMENT OF CEREBRAL VENOUS THROMBOSIS**
J. Coutinho (*The Netherlands*)

11:30 **DOES IT MAKE SENSE TO SCREEN FOR PREDISPOSING CONDITIONS AND DISEASES?**
J. Coutinho (*The Netherlands*)

11:50 **DISCUSSION**

12:00 - 12:45

Exhibition Area

Lunch Break, Exhibition, Poster Viewing

12:45 - 14:15

Hall E1

Industry Supported Session

Industry Session not Included in Main Event CME/CPD Credit
For more information see page 339

12:45 - 14:15

Hall H

Industry Supported Session

Industry Session not Included in Main Event CME/CPD Credit
For more information see page 338

12:45 - 14:15

Hall K1

Industry Supported Session

Industry Session not Included in Main Event CME/CPD Credit
For more information see page 342



12:45 - 14:15

Hall K2

Industry Supported Session

*Industry Session not Included in Main Event CME/CPD Credit
For more information see page 340*

12:45 - 14:15

Hall K3

Industry Supported Session

*Industry Session not Included in Main Event CME/CPD Credit
For more information see page 341*

14:15 - 14:30

Short Break

14:30 - 16:00

Hall C

Scientific Session: Stroke Prevention & Epidemiology

Convenors: P. Rothwell (*United Kingdom*)
B.L. Thorarinsson (*Iceland*)

14:30 **FALLING INCIDENCE, RISING PREVALENCE: MEETING THE CHALLENGE OF AN AGING POPULATION**

Y. Béjot (*France*)

14:45 **STROKE PREVENTION: FIRST DO NO HARM**

L. Li (*United Kingdom*)

15:00 **EMBOLIC STROKE OF UNDETERMINED SOURCE (ESUS): CONCEPT AND CONSEQUENCES**

H.C. Diener (*Germany*)

15:15 **CUTTING EDGE PREVENTION: KEEP IT SIMPLE, A POLYPILL FOR ALL?**

M. Law (*United Kingdom*)

15:30 **CUTTING EDGE PREVENTION: EVOLOCUMAB, ALIROCUMAB AND FUTURE MONOCLONALS, ARE THEY WORTH IT?**

P. Amarenco (*France*)

15:45 **DISCUSSION**

Scientific Communication: Acute Non Reperfusion Trials

Convenors: T. Robinson (*United Kingdom*)
M. Mazighi (*France*)

- 14:30 **STROKE ETIOLOGY CAN BE PREDICTED BY THROMBUS PERMEABILITY IN ADMISSION CT IMAGING**
M. Berndt, J. Kaesmacher, C. Maegerlein, B. Friedrich, L. Manuel, S. Mönch, C. Zimmer, P. Holger, T. Boeckh-Behrens (*Germany*)
- 14:40 **RELEVANCE OF COLLATERALS FOR THE SUCCESS OF NEUROPROTECTIVE THERAPIES IN ACUTE ISCHEMIC STROKE: INSIGHTS FROM THE URICO-ICTUS STUDY**
S. Amaro, L. Llull, A. Renú, C. Laredo, X. Urra, V. Obach, S. Rudilosso, A.M. Planas, A. Chamorro (*Spain*)
- 14:50 **NEW FALCON IS A SIMPLE AND POWERFUL TRIAGE SCORE TO IDENTIFY LARGE VESSEL OCCLUSION IN ACUTE ISCHEMIC STROKE**
T. Kahles, L. Diem, A. Coito, O. Findling, M. Diepers, L. Remonda, K. Nedeltchev (*Switzerland*)
- 15:00 **SAFETY AND EFFICACY OF SP-8203 IN PATIENTS WITH ACUTE ISCHEMIC STROKE REQUIRING TPA STANDARD OF CARE: A MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED PHASE 2A STUDY**
J.S. Kim, K.B. Lee, J.H. Park, S.M. Sung, K. Oh, E.G. Kim, D.I. Chang, Y.H. Hwang, W.K. Kim, C. Ju, J.M. Ryu (*Republic of Korea*)
- 15:10 **REDUCING BODY TEMPERATURE (COOLING) IN ACUTE STROKE: A SYSTEMATIC REVIEW AND META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS**
A. Malik, R. Begh, N. Lindson-Hawley (*United Kingdom*)
- 15:20 **DOES CLASS OF ANTIBIOTIC USED TO TREAT POST-STROKE INFECTIONS INFLUENCE CLINICAL OUTCOMES? AN INDIVIDUAL PARTICIPANT DATA POOLED ANALYSES OF VISTA-ACUTE**
C.J. Smith, C. Heal, A. Vail, A.R. Jeans, W.F. Westendorp, P.J. Nederkoorn, D. Van de Beek, L. Kalra, J. Montaner, M. Woodhead, A. Meisel (*United Kingdom*)
- 15:30 **LABETALOL INFUSION TO REDUCE BLOOD PRESSURE VARIABILITY AND HEMATOMA EXPANSION: A RANDOMIZED CONTROL STUDY**
Rajeshwar, M. Kate, S. Rathore, H. Khatter, J. Pandian (*India*)



- 15:40 **MELBOURNE MOBILE STROKE UNIT INITIAL COMMENCEMENT ACTIVITY AND EFFECT**
S. Coote, H. Zhao, B. Campbell, L. Pesavento, P. Salvaris, F. Langenberg, E. Rodrigues, D. Easton, B. Yan, L. Bent, S. Foster, K. Smith, S. Bernard, M. Stephenson, M. Parson, G. Donnan, S. Davis (*Australia*)
- 15:50 **POINT-OF-CARE TESTING OF COAGULATION IN PATIENTS TREATED WITH THE DIRECT ORAL ANTICOAGULANT EDOXABAN**
 F. Härtig, I. Birschmann, A. Peter, C. Weyland, M. Dehnert, L. Martin, M. Sonnleitner, M. Ebner, J. Kuhn, U. Ziemann, S. Poli (*Germany*)

14:30 - 16:00

Hall E4

Scientific Session: Cerebral Small Vessel Disease

Convenors: H. Markus (*United Kingdom*)
 E. Jouvent (*France*)

- 14:30 **DYNAMICS OF SVD-RELATED LESIONS: INSIGHTS FROM SERIAL IMAGING**
 F.E. De Leeuw (*The Netherlands*)
- 14:45 **CAUSES AND CONSEQUENCES OF CEREBRAL MICROINFARCTS**
 S.J. van Veluw (*The Netherlands*)
- 15:00 **ROLE OF PERIVASCULAR SPACES AND THE GLYMPHATIC SYSTEM IN SVD**
 J. Wardlaw (*United Kingdom*)
- 15:15 **PERIVASCULAR MACROPHAGES AND NEUROVASCULAR DYSFUNCTION**
 C. Iadecola (*USA*)
- 15:30 **TREATING PATIENTS WITH CEREBRAL AMYLOID ANGIOPATHY: WHAT WE KNOW, WHAT WE DON'T KNOW, HOW I DO IT**
 D. Werring (*United Kingdom*)
- 15:45 **DISCUSSION**

Scientific Communication: Haemorrhagic Stroke

Convenors: P. Lyden (*USA*)

A.R. Parry-Jones (*United Kingdom*)

14:30 **INFLAME-ICH: EVALUATION OF THE CENTRAL AND PERIPHERAL INFLAMMATORY RESPONSE TO INTRACEREBRAL HAEMORRHAGE IN MISTIE-III TRIAL PARTICIPANTS**

A.R. Parry-Jones, W. Ziai, C. Heal, M. Hoadley, S. Scarth, W.A. Mould, M. Zuccerello, I. Awad, P. Nyquist, L. Sansing, D. Hanley (*United Kingdom*)

14:40 **PREDICTING INTRACEREBRAL HEMORRHAGE EXPANSION WITH NON-CONTRAST CT: THE BAT SCORE**

A. Morotti, D. Dowlatshahi, G. Boulouis, F. Al-Ajlan, A. Demchuk, R. Aviv, L. Yu, K. Schwab, J. Romero, E. Gurol, A. Viswanathan, C. Anderson, Y. Chang, S. Greenberg, A. Qureshi, J. Rosand, J. Goldstein (*Italy*)

14:50 **PROGNOSTIC RELEVANCE OF CORTICAL SUPERFICIAL SIDEROSIS IN CEREBRAL AMYLOID ANGIOPATHY**

F.A. Wollenweber, C. Opherck, M. Zedde, C. Catak, R. Malik, M. Duering, M. Konieczny, R. Pascarella, R. Samões, M. Correia, J. Martí-Fàbregas, J. Linn, M. Dichgans (*Germany*)

15:00 **CLINICAL RELEVANCE OF MICROBLEEDS IN PATIENTS WITH CARDIEMBOLIC STROKE WHO START LONG-TERM ORAL ANTICOAGULATION: FOLLOW-UP OF PATIENTS FROM THE HERO STUDY**

J. Martí-Fàbregas, R. Delgado-Mederos, A. Martínez-Domeño, P. Camps-Renom, E. Merino, S. Medrano-Martorell, B. Zandio, A. Boix, M. Zedde, M. Gómez-Choco, L. Lara, A. Calleja, Y. Bravo, D. Cánovas, L. Llull, I. Casado-Naranjo, A.M. De Arce-Borda, M. Hernández-Pérez, M. Freijo, L. Prats-Sánchez (*Spain*)

15:10 **PROGNOSTIC SIGNIFICANCE OF ABNORMAL PHYSIOLOGICAL VARIABLES CLUSTER IN ACUTE ICH: INTERACT2 STUDY**

L. Song, X. Wang, G. Chen, H. Arima, E. Sandset, C. Delcourt, J. Wang, T. Robinson, J. Chalmers, R. Lindley, C. Anderson (*Australia*)

15:20 **CHARACTERISTICS AND OUTCOMES OF PATIENTS WITH HYPERGLYCAEMIA IN INTRACEREBRAL HAEMORRHAGE: DATA FROM THE TRANEXAMIC ACID FOR INTRACEREBRAL HAEMORRHAGE-2 (TICH-2) TRIAL**

Z.K. Law, K. Flaherty, J. Appleton, P. Scutt, K. Krishnan, A. Ali, R. Dineen, P. Bath, N. Sprigg (*United Kingdom*)



15:30 **CLINICAL AND HEMATOMA OUTCOMES AND RENAL ADVERSE EVENTS DEPENDING ON ACHIEVED ACUTE BLOOD PRESSURE LEVELS AFTER INTRACEREBRAL HEMORRHAGE: THE ATACH-2 TRIAL**

K. Toyoda, M. Koga, H. Yamamoto, S. Sato, D. Hanley, Y. Palesch, A. Qureshi (*Japan*)

15:40 **DIFFERENTIAL DETERMINANTS OF EARLY VS DELAYED NEUROLOGICAL DETERIORATION IN INTRACEREBRAL HEMORRHAGE: INTERACT2 STUDY**

S. You, D. Zheng, C. Delcourt, S. Sato, S. Zhang, J. Yang, Y. Cao, X. Wang, R. Lindley, C. Anderson, J. Chalmers (*China*)

15:50 **DOES THE ABC ACUTE CARE BUNDLE FOR INTRACEREBRAL HAEMORRHAGE LEAD TO SUSTAINED IMPROVEMENTS IN MORTALITY AND WHICH ASPECTS OF TREATMENT ARE IMPORTANT?**

A.R. Parry-Jones, C. Sammut-Powell, E. Birleson, K. Paroutoglou, R. Emsley, B. Bray, H. Patel (*United Kingdom*)

14:30 - 16:00

Hall K1

Scientific Session: Action Plan for Stroke in Europe Joint ESO - SAFE Session

 *Live streaming*

Convenors: V. Caso (*Italy*)
B. Norrving (*Sweden*)

14:30 **SETTING THE TARGETS FOR STROKE IN EUROPE IN 2030**

B. Norrving (*Sweden*)

14:48 **ACTIONS TO ACHIEVE THE NEW TARGETS - ROADMAP TO 2030**

V. Caso (*Italy*)

15:06 **THE PATIENT PERSPECTIVE - LIFE AFTER STROKE AND THE ROLE OF SAFE**

J. Barrick (*United Kingdom*)

15:24 **JOINING FORCES IN COMBATING STROKE IN EUROPE - THE WHO PERSPECTIVE**

J. Farrington (*Denmark*)

15:43 **DISCUSSION**

Scientific Session: Geographic Differences in Acute Stroke Care Joint ESO - ISA Session



Webcasting

Convenors: G. Tsivgoulis (*Greece*)

D. Arjundas (*India*)

14:30 **LOW VS. STANDARD TPA DOSE FOR INTRAVENOUS THROMBOLYSIS**

V. Sharma (*Singapore*)

14:45 **SINGLE VS. DUAL ANTIPLATELET THERAPY FOR TIA OR MINOR ACUTE ISCHEMIC STROKE**

G. Tsivgoulis (*Greece*)

15:00 **OPTIMAL HEAD POSITIONING FOR ACUTE STROKE**

A.W. Alexandrov (*USA*)

15:15 **SPHENOPALATINE GANGLION STIMULATION FOR ACUTE ISCHEMIC STROKE**

D. Khurana (*India*)

15:30 **PERCUTANEOUS TRANSLUMINAL ANGIOPLASTY AND STENTING FOR SYMPTOMATIC INTRACRANIAL ATHEROSCLEROSIS**

L. Wong (*Hong Kong*)

15:45 **DISCUSSION**



Scientific Session: Complications of Stroke

Convenors: C. Roffe (*United Kingdom*)
J. Féro (*Portugal*)

14:30 HYPERTENSION

E.C. Sandset (*Norway*)

14:45 DYSPHAGIA

P. Clavé (*Spain*)

15:00 POST-STROKE PNEUMONIA

A. Meisel (*Germany*)

15:15 MOOD AND FATIGUE

A. Drummond (*United Kingdom*)

15:30 ETHICAL ASPECTS OF END OF LIFE CARE AFTER STROKE

S. Lorenzl (*Germany*)

15:45 DISCUSSION

Workshop: Neurointervention Joint ESO-ESMINT-ESNR Workshop (I)

TICKET *Pre-registration required*

Convenors: I. Szikora (*Hungary*)
M. Möhlenbruch (*Germany*)
Demonstrators: A. Krajina (*Czech Republic*)
P. Brouwer (*Sweden*)
J. Gerber (*Germany*)

14:30 - 16:00

Hall J2

Structured Case Presentation: Diagnosis of Monogenic Stroke. Hints & Pitfalls

 *Pre-registration required*

 *Voting*

Convenors: B. Goeggel Simonetti (*Switzerland*)
A. Federico (*Italy*)

14:30 **CASE 1: STROKE IN A FAMILY WITH CONNECTIVE TISSUE DISORDER**

B. Goeggel Simonetti (*Switzerland*)

15:00 **CASE 2: SKIN LESIONS AND LEUCOENCEPHALOPATHY / RECURRENT ATYPICAL STROKE LESIONS**

A. Federico (*Italy*)

15:30 **CASE 3: STROKE, LEUCOENCEPHALOPATHY AND PROGRESSIVE MENTAL DETERIORATION IN A CASE WITH THYROID DYSFUNCTION AND MUSCLE WEAKNESS**

A. Federico (*Italy*)

16:00 - 16:30

Exhibition Area

Coffee Break, Exhibition, Poster Viewing

16:30 - 18:00

Hall C

Scientific Session: Stroke and Heart Joint ESO - ESC Session

Convenors: W. Döhner (*Germany*)
A. Lindgren (*Sweden*)

16:30 **CARDIAC COMPLICATIONS OF STROKE**

S. Sacco (*Italy*)

16:45 **LEFT ATRIAL APPENDAGE OCCLUSION: CURRENT EVIDENCE AND UNANSWERED QUESTIONS**

L.V. Boersma (*The Netherlands*)

17:00 **PFO AND STROKE: WHAT WE KNOW AND WHAT WE DON'T KNOW**

J.L. Mas (*France*)

17:15 **TROPONIN ELEVATION AFTER STROKE: IS IT THE HEART OR THE BRAIN?**

S. Jung (*Switzerland*)



17:30 **ECG MONITORING AFTER ISCHEMIC STROKE/TIA OF UNKNOWN SOURCE: WIDE USE OF INSERTABLE MONITORS?**

I. van Gelder (*The Netherlands*)

17:45 **DISCUSSION**

16:30 - 18:00

Hall E1

Scientific Communication: Pathophysiology and Mechanisms

Convenors: A.M. Planas (*Spain*)

J. Herlitz (*Sweden*)

16:30 **SINGLE CHAIN (SC-) VERSUS TWO CHAIN (TC-) TISSUE PLASMINOGEN ACTIVATOR (TPA) IN A MODEL OF THROMBOEMBOLIC STROKE AND REPERFUSION IN MICE**

A. Anfray, C. Brodin, D. Vivien, C. Orset (*France*)

16:40 **EARLY CEREBRAL ISCHEMIC EVENTS IN SYPTOMATIC CAROTID STENOSIS ARE RELATED TO PLAQUE INFLAMMATION**

V.K. Sharma, P. Paliwal, H.L. Teoh, B. Chan, A. Gopinathan, A.K. Sinha (*Singapore*)

16:50 **POST-STROKE INFLAMMATORY RESPONSE IS LINKED TO CEREBRAL VOLUME LOSS IN CONTRALATERAL HEMISPHERE FOLLOWING ISCHEMIC STROKE**

S.V. Okar, M.A. Topcuoglu, M. Yemisci, K.K. Oguz, E.M. Arsava (*Turkey*)

17:00 **VULNERABLE INTRACRANIAL ATHEROSCLEROTIC PLAQUES: A MORPHOLOGY STUDY BY 3-DIMENSIONAL ROTATIONAL ANGIOGRAPHY**

T.W. Leung, C. Leng, Y. Soo, B. Ip, A. Lau, V. Mok, A. Wong, J. Abrigo, S. Yu (*Hong Kong*)

17:10 **ULTRASTRUCTURAL AND IMMUNOHISTOLOGICAL CHARACTERIZATION OF AIS THROMBI**

L. Di Meglio, S.N. Mialitiana, O. Veronique, D. Jean-Philippe, M. Jean-Baptiste,

D. Catherine, H.T.N. Benoit, M. Mikael (*France*)

17:20 **CEREBRAL THROMBI RETRIEVED BY MECHANICAL THROMBECTOMY ARE HETEROGENEOUS AND THEIR COMPOSITION CORRELATES WITH THE DENSITY OF THE OCCLUDED VESSEL ON CT SCAN**

A. Semerano, M. Pozzato, G.S. Gullotta, D. Strambo, A. Bergamaschi, F. Simionato, P. Panni, F. Scomazzoni, C. Righi, A. Falini, G. Comi, G. Martino, L. Roveri, M. Bacigaluppi (*Italy*)

17:30 **INCREASED PLATELET COUNT AND RETICULATED PLATELETS IN RECENTLY SYMPTOMATIC VERSUS ASYMPTOMATIC CAROTID ARTERY STENOSIS AND IN CEREBRAL MICROEMBOLIC SIGNAL-NEGATIVE PATIENT SUBGROUPS: RESULTS FROM HEIST STUDY**

S. Murphy, S.T. Lim, J. Kinsella, D. Murphy, H. Enright, D. McCabe (*Ireland*)

17:40 **INITIAL FINDINGS FROM THE CURAM AND MAYO CLINIC INTERNATIONAL ACUTE ISCHEMIC STROKE CLOT REGISTRY**

S. Fitzgerald, D. Dai, S. Wang, A. Pandit, A. Douglas, R. Kadirvel, M.J. Gounis, W. Brinjikji, D. Kallmes, K.M. Doyle (*Ireland*)

17:50 **REDUCED TOTAL BRAIN PERFUSION AND THE RISK OF STROKE AND TRANSIENT ISCHEMIC ATTACK IN THE GENERAL POPULATION: THE ROTTERDAM STUDY**

L. Fani, U. Mutlu, M.A. Ikram, D. Bos, M.K. Ikram (*The Netherlands*)

16:30 - 18:00

Hall E4

Scientific Communication: Imaging

Convenors: A. Demchuk (*Canada*)
K.W. Muir (*United Kingdom*)

16:30 **SPONTANEOUS DILATATION OF STENTS AFTER CAROTID ARTERY STENTING, CAS, WITHOUT POST-CAS BALLOON DILATATION FOR HIGH SIGNAL LESIONS ON MR BLACK-BLOOD IMAGES**

Y. Tanno, T. Mori, N. Noriyoshi, K. Shigen, Y. Kazuhiro (*Japan*)

16:40 **CAROTID PLAQUE INFLAMMATION MEASURED WITH 18-FLUORODEOXYGLUCOSE POSITRON-EMISSION TOMOGRAPHY PREDICTS EARLY STROKE RECURRENCE IN PATIENTS WITH ATHEROTHROMBOTIC STROKE**

P. Camps-Renom, A. Fernández-León, L. Prats-Sánchez, J.M. González-de-Echávarri, P. Marrero-González, R. Delgado-Mederos, A. Martínez-Domeño, E. Jiménez-Xarrié, D. Guisado-Alonso, J. Martí-Fàbregas (*Spain*)

16:50 **AORTIC ATHEROMA AND VASCULAR STIFFNESS – ASSESSMENT OF REGIONAL PULSE WAVE VELOCITY USING 4D FLOW MRI IN STROKE PATIENTS AND CONTROLS**

T. Wehrum, I. Dragonu, C. Strecker, F. Schuchardt, A. Hennemuth, J. Hennig, A. Harloff (*Germany*)

17:00 **HIGHER PREVALENCE OF DWI-POSITIVE LESIONS IS ASSOCIATED WITH HIGHER SEVERITY OF CEREBRAL SMALL VESSEL DISEASE AMONG STROKE IN YOUNG ADULTS; THE FUTURE STUDY**

M.M.E. Van Dongen, K. Wiegertjes, A. Ter Telgte, R.M. Arntz, N.A.M. Maaijwee, H.C. Schoonderwaldt, L.C.A. Rutten-Jacobs, A.M. Tuladhar, F.E. De Leeuw (*The Netherlands*)

17:10 **REDEFINING THE ISCHEMIC CORE THRESHOLD FOR THROMBECTOMY A CASE CONTROL STUDY**

A. Bivard, T. Kleining, F. Miteff, K. Butcher, L. Lin, M. Parsons (*Australia*)



- 17:20 **CLINICAL UTILITY OF E-ASPECTS SOFTWARE IN THE ENCHANTED TRIAL DATABASE**
 S. Nagel, X. Wang, C. Carcel, T. Robinson, R.I. Lindley, J. Chalmers, C.S. Anderson (*Germany*)
- 17:30 **ALADIN STUDY: AUTOMATED LARGE ARTERY OCCLUSION DETECTION IN STROKE IMAGING STUDY - A MULTI-CENTER EXPERIENCE**
 C. Monteiro Antunes Barreira, M. Bouslama, J. Lim, A.R. Al-Bayati, D.C. Haussen, J.A. Grossberg, B. Baxter, T. Devlin, M. Froehler, M.R. Frankel, R.G. Nogueira (*USA*)
- 17:40 **EVALUATION OF INTRACRANIAL COLLATERALS BY A FULLY AUTOMATED COMPUTER BASED ALGORITHM COMPARED TO HUMAN READERS**
 J. Pfaff, F. Seker, S. Nagel, P.A. Ringleb, M. Bendszus, C. Herweh (*Germany*)
- 17:50 **THROMBUS PERVIOUSNESS AS A POTENTIAL PATIENT SELECTION TOOL FOR INTRAVENOUS AND ENDOVASCULAR TREATMENT FOR ACUTE ISCHEMIC STROKE**
 M. Kappelhof, M.L. Tolhuisen, K.M. Treurniet, B.G. Dutra, S. Brown, K.W. Muir, Y.B.W.E.M. Roos, J.L. Saver, A.M. Demchuk, T.G. Jovin, S. Bracard, B.C.V. Campbell, A. Van der Lugt, P. White, M.D. Hill, D.W.J. Dippel, P.J. Mitchell, M. Goyal, H.A. Marquering, C.B.L.M. Majoie (*The Netherlands*)

16:30 - 18:00

Hall H

Scientific Session: Rare Causes of Stroke



Ask the speaker

Convenors: A. Bersano (*Italy*)
 P. Kelly (*Ireland*)

- 16:30 **COAGULOPATHIES, RISK OF STROKE AND TREATMENT CONSIDERATIONS**
 C. Weimar (*Germany*)
- 16:48 **PRIMARY ANGIITIS OF THE CNS**
 A. Hietaharju (*Finland*)
- 17:06 **MITOCHONDRIAL DISEASE, STROKE AND STROKE-LIKE EPISODES**
 M. Mancuso (*Italy*)
- 17:24 **MOYA-MOYA: EPIDEMIOLOGY, DIAGNOSIS AND TREATMENT FROM A EUROPEAN PERSPECTIVE**
 K. Klijn (*The Netherlands*)
- 17:42 **THERAPEUTIC DILEMMAS IN EXTRACRANIAL ARTERY DISSECTION**
 S. Debette (*France*)

Scientific Session: Implementation of Stroke Care Across Europe Joint ESO - SAFE Session

Convenors: S. Schönenberger (*Germany*)

M. Gallofre Lopez (*Spain*)

16:30 **IMPLEMENTATION OF TRIAL RESULTS IN ROUTINE CLINICAL PRACTICE**

Y. Roos (*The Netherlands*)

16:45 **ONE SIZE DOES NOT FIT ALL: ADAPTATION OF STROKE SYSTEMS OF CARE TO GEOGRAPHICAL CONDITIONS**

M. Mazyra (*Sweden*)

17:00 **QUALITY OF STROKE CARE IN EASTERN EUROPEAN COUNTRIES**

R. Mikulik (*Czech Republic*)

17:15 **...STRAIGHT TO THE ANGIO SUITE, PLEASE!**

M. Psychogios (*Germany*)

17:30 **MOBILE STROKE UNITS FOR PREHOSPITAL THROMBOLYSIS, TRIAGE AND BEYOND: IS IT TRULY USEFUL?**

J. Saver (*USA*)

17:45 **DISCUSSION**



Scientific Session: Vascular Cognitive Impairment



Webcasting

- Convenors: D. Leys (*France*)
Z. Gdovinová (*Slovak Republic*)
- 16:30 **RISK FACTORS FOR DELIRIUM AND COGNITIVE IMPAIRMENT AFTER STROKE**
T. Quinn (*United Kingdom*)
- 16:45 **TEMPORAL EVOLUTION OF POST-STROKE COGNITIVE IMPAIRMENT**
M. Düring (*Germany*)
- 17:00 **CAA-RELATED COGNITIVE IMPAIRMENT: CLINICAL FEATURES AND MECHANISMS**
S.M. Greenberg (*USA*)
- 17:15 **NETWORK DYSFUNCTION AND VCI**
Y.D. Reijmer (*The Netherlands*)
- 17:30 **LIFESTYLE INTERVENTIONS AND RISK OF DEMENTIA**
E. Richard (*The Netherlands*)
- 17:45 **DISCUSSION**

Scientific Communication: Reperfusion III

Convenors: X. Urra (*Spain*)
J.P. Broderick (*USA*)

16:30 **INFLUENCE OF THE ADMINISTRATION OF IV-RTPA ON DISTAL THROMBUS MIGRATION OR RESOLUTION IN STROKE PATIENTS UNDERGOING ENDOVASCULAR TREATMENT**

K. Treurniet, H. Alves, I. Jansen, A. Yoo, L. Yo, A. Van Es, B. Emmer, R. Van den Berg, I. Van den Wijngaard, J.A. Vos, Y. Roos, W. Schonewille, G. Lycklama à Nijeholt, D. Dippel, C. Majoie, H. Marquering (*The Netherlands*)

16:40 **DIFFERENCES IN PROCEDURES AND OUTCOMES FOR MECHANICAL THROMBECTOMY IN ACUTE POSTERIOR VERSUS ANTERIOR CIRCULATION STROKE IN THE GERMAN REVASK REGISTRY**

R. Weber, J. Minnerup, H. Nordmeyer, J. Eyding, C. Krogias, K. Berger (*Germany*)

16:50 **INTRACRANIAL HEMORRHAGE AFTER ENDOVASCULAR TREATMENT FOR ACUTE ISCHEMIC STROKE: PREDICTORS AND OUTCOME IN THE NORDICTUS REGISTRY**

P. De la Riva, A. De Arce, J. Rodríguez-Antigüedad, E. Palacio, A.I. Calleja, M. González, M. Altuna, E. Rodríguez-Castro, A. Pinedo, J.M. Trejo, J. Marta, M. Freijo, R. De la Fuente, J. Sanchez, M. Castellanos, J.F. Arenillas (*Spain*)

17:00 **INCIDENCE AND PREDICTORS OF EARLY RECANALIZATION AFTER THROMBOLYSIS IN CANDIDATES FOR THROMBECTOMY AND DEVELOPMENT OF A CLINICAL SCORE**

P. Seners, G. Turc, O. Naggara, H. Henon, M. Piotin, C. Arquizan, T.H. Cho, A.P. Narata, B. Lapergue, S. Richard, N. Bricout, R. Blanc, C. Dargazanli, B. Gory, S. Debiais, M. Tisserand, S. Bracard, J.L. Mas, C. Oppenheim, J.C. Baron (*France*)

17:10 **IS GENERAL ANESTHESIA ASSOCIATED WITH WORSE OUTCOMES AFTER ENDOVASCULAR THERAPY IN ANY SUBGROUP OF STROKE PATIENTS? THE NORDICTUS REGISTRY**

M. De Lera, M.A. Castaño-Blazquez, M.A. Schüller, S. Pérez-Pereda, A. De Arce, E. López-Cancio, A. Echeverría, S. Arias-Rivas, I. Azkune, Y. Bravo, H. Tejada, M. Freijo, J. Hernández, J.L. Maciñeiras, M. Castellanos-Rodrigo, J.F. Arenillas-Lara (*Spain*)

17:20 **MECHANICAL THROMBECTOMY PRIOR TO ACUTE CAROTID ARTERY STENTING IN TANDEM OCCLUSIONS: ORDER OF TREATMENT HAS AN IMPACT ON CLINICAL OUTCOME**

V. Maus, J. Borggrefe, D. Behme, C. Kabbasch, N. Abdullayev, L. Yeo, P. Brouwer, M. Söderman, M. Möhlenbruch, M. Psychogios, T. Liebig, G. Fink, A. Mpotsaris (*Germany*)



- 17:30 **SAFETY AND OUTCOME OF ENDOVASCULAR TREATMENT IN PRE-STROKE FUNCTIONALLY DEPENDENT PATIENTS: RESULTS FROM THE MR CLEAN REGISTRY**
 R. Goldhoorn, M. Verhagen, D. Dippel, A. Van der Lugt, H. Lingsma, Y. Roos, C. Majoie, J.A. Vos, J. Boiten, W. Van Zwam, R. Van Oostenbrugge, I. Van den Wijngaard
(The Netherlands)
- 17:40 **ENDOVASCULAR THERAPY IN THE DISTAL NEUROVASCULAR TERRITORY: RESULTS OF A LARGE PROSPECTIVE REGISTRY**
 R.G. Nogueira, E. Veznedaroglu, R. Gupta, J. English, B. Baxter, R. Budzik, A. Krajina, B.M. Bartolini *(USA)*
- 17:50 **META-ANALYSIS ON OUTCOME DIFFERENCES AMONG PATIENTS WITH TIC12B VERSUS TIC13 REPERFUSIONS: SUCCESS REVISITED**
 J. Kaesmacher, T. Dobrocky, M.R. Heldner, S. Bellwald, P.J. Mosimann, P. Mordasini, S. Bigl, M. Arnold, J. Gralla, U. Fischer *(Switzerland)*

16:30 - 18:00

Hall J1

Workshop: Neurointervention Joint ESO-ESMINT-ESNR Workshop (2) - REPEAT SESSION

Pre-registration required

Convenors: I. Szikora *(Hungary)*
 M. Möhlenbruch *(Germany)*
 Demonstrators: A. Krajina *(Czech Republic)*
 P. Brouwer *(Sweden)*
 J. Gerber *(Germany)*

16:30 - 18:00

Hall J2

Structured Case Presentation: Acute Management

Pre-registration required

Voting

Convenors: A. Zini *(Italy)*
 M. Knoflach *(Austria)*

16:30 **CASE 1: BASILAR ARTERY OCCLUSION OF UNKNOWN ONSET**

A. Zini *(Italy)*

17:00 **CASE 2: INTRACRANIAL VESSEL DISSECTION**

M. Knoflach *(Austria)*

17:30 **CASE 3**

Please refer to the conference app

18:00 - 18:10

Short Break

18:10 - 19:10

Hall K1

ESO General Assembly

18:10 - 19:10

Poster Area

Poster Networking & E-Poster Discussion Sessions

18:10 - 19:10

Poster Area

E-Poster Discussion: Experimental & Translational

Convenor: S.M. Allan (*United Kingdom*)

- 18:10 **INTENSIVE BLOOD PRESSURE LOWERING REDUCES HEMATOMA VOLUME IN EXPERIMENTAL INTRACEREBRAL HEMORRHAGE**
F. Bohmann, A. Seiler, S. Leonie, B. Brill, R. Brunkhorst, H. Steinmetz, P. Harter, M. Mittelbronn, C. Foerch (*Germany*)
- 18:18 **THE EFFECT OF MECHANICAL REPERFUSION OUTCOME FOLLOWING AN OCCLUSIVE STROKE ON THE REGIONAL EXPRESSION OF MATRIX METALLOPROTEINASE-9 IN RAT BRAIN**
A. Douglas, J. Shearer, A. Pandit, K. Doyle (*Ireland*)
- 18:26 **VASCULAR COGNITIVE IMPAIRMENT IN EXPERIMENTAL HYPERTENSION: THE MICROGLIAL CULPRIT**
D. Kerkhofs, B. Van Hagen, I. Milanova, E. Wijnands, P. Goossens, B. Rutten, M. Blankesteijn, J. Prickaerts, T. Unger, E. Biessen, R. Van Oostenbrugge, S. Foulquier (*The Netherlands*)
- 18:34 **INTERACTION OF LEUKOCYTES WITH THE CEREBROVASCULAR ENDOTHELIUM IS SUFFICIENT TO DAMAGE NEURONS FOLLOWING EXPERIMENTAL ISCHEMIC STROKE**
R. Sienel, H. Kataoka, S.W. Kim, N. Plesnila (*Germany*)
- 18:42 **NOSE-TO-BRAIN DRUG DELIVERY FOR THE TREATMENT OF STROKE: NEUROPROTECTIVE EFFECTS OF THE ANGIOTENSIN AT₂-RECEPTOR AGONIST C21 IN EXPERIMENTAL STROKE IN RATS**
U.M. Steckelings, D.M. Bennion, C.H. Jones, A.N. Dang, J.D. Isenberg, J.T. Graham, L. Lindblad, M.F. Waters, O. Domenig, M. Poglitsch, C. Sumners (*Denmark*)
- 18:50 **CEREBRAL INFARCT VOLUME AND COLLATERAL CIRCULATION IN YOUNG VERSUS OLDER ADULTS WITH ACUTE ISCHEMIC STROKE**
M. Van Nostrand, M. Selim, V.A. Lioutas (*USA*)



E-Poster Discussion: Intracerebral Haemorrhage

Convenor: A.R. Parry-Jones (*United Kingdom*)

18:10 **SIGNIFICANCE OF BLEND SIGN IN INTRACEREBRAL HEMORRHAGE: INTERACT2 STUDY**

Y. Cao, S. You, X. Wang, C. Anderson, C. Carcel (*China*)

18:18 **CORTICAL SUPERFICIAL SIDEROSIS IN PATIENTS WITH CARDIOEMBOLIC STROKE AND LONG-TERM ORAL ANTICOAGULATION: FREQUENCY, ASSOCIATED VARIABLES AND RISK OF INTRACRANIAL HEMORRHAGE DURING FOLLOW-UP**

D. Guisado-Alonso, L. Prats-Sánchez, R. Delgado-Mederos, P. Camps-Renom, S. Medrano-Martorell, E. Merino, J. Sanahuja, D. Cocho, A. Lago, J. Krupinski, A. De Felipe, B. Fuentes, M. Garcés, A. Rodríguez-Campello, E. Palomeras, F. Moniche, M. Serrano, I. Díaz-Maroto, M. Rodríguez-Yáñez, J. Martí-Fàbregas (*Spain*)

18:26 **INTRACRANIAL HEMORRHAGE IN PATIENTS WITH ATRIAL FIBRILLATION RECEIVING ORAL ANTICOAGULATION WITH WARFARIN OR EDOXABAN**

S.E. Nelson, R.P. Giugliano, E.M. Antman, J.G. Park, A.D. Norden, N.S. Rost, S. Silverman, A. Singhal, H.J. Lanz, M.F. Mercuri, E. Braunwald, C.T. Ruff (*USA*)

18:34 **ASSOCIATION BETWEEN THE EDINBURGH CT AND GENETIC DIAGNOSTIC CRITERIA FOR LOBAR INTRACEREBRAL HAEMORRHAGE ASSOCIATED WITH CEREBRAL AMYLOID ANGIOPATHY AND RISK OF RECURRENT INTRACEREBRAL HAEMORRHAGE**

M. Rodrigues, L. Perry, N. Samarasekera, C. Lerpiniere, P. White, J. Wardlaw, R. Al-Shahi Salman (*United Kingdom*)

18:42 **CT IMAGING MARKERS OF CAA, APOE GENOTYPE AND RECURRENT ICH RISK**

D. Seiffge, I.C. Hostettler, D. Wilson, H. Houlden, G. Ambler, G. Banerjee, C. Shakeshaft, H. Cohen, T. Yousry, R. Al-Shahi Salman, G.Y.H. Lip, M. Brown, K.W. Muir, H.R. Jäger, D.J. Werring (*United Kingdom*)

18:50 **INTRACOMPARTMENTAL PRESSURE GRADIENTS IN THE VENTRICULAR SYSTEM IN SPONTANEOUS INTRAVENTRICULAR HEMORRHAGE: RESULTS FROM THE CLEAR III TRIAL**

W. Ziai, H. Ali, A. Muller, C. Thompson, R. Dlugash, A. Mould, I. Awad, D. Hanley (*USA*)

E-Poster Discussion: Imaging

Convenor: B. Cheng (*Germany*)

- 18:10 **ENDOVASCULAR THERAPY IN BASILAR ARTERY OCCLUSION: IMPACT OF RECANALIZATION, THROMBUS BURDEN AND COLLATERALS**
F. Alemseged, E. Van der Hoeven, F. Di Giuliano, D. Shah, N. Yassi, F. Arba, T. Kleinig, S. Bush, R.J. Dowling, B. Yan, F. Sallustio, R. Gandini, G.A. Donnan, V. Puetz, M. Diomedì, M. Parsons, P.J. Mitchell, S.M. Davis, W. Schonewille, B.C. Campbell (*Australia*)
- 18:18 **TESTING THE CLINICAL-IMAGING MISMATCH SELECTION CRITERIA OF DAWN TRIAL: THERE IS STILL ROOM FOR IMPROVEMENT IN PATIENT SELECTION**
D. Céline, N. Khoury, A. Lecler, R. Blanc, A. Chetrit, H. Redjem, G. Ciccio, S. Smajda, S. Escalard, J.P. Desilles, M. Mazighi, M. Ben maacha, M. Piotin, R. Fahed (*France*)
- 18:26 **INTRACRANIAL CAROTID ARTERY CALCIFICATION AND EFFECT ON ENDOVASCULAR TREATMENT IN ACUTE ISCHEMIC STROKE PATIENTS**
K. Compagne, A. Van der Lugt, P. Clephas, C. Majoie, Y. Roos, R. Van Oostenbrugge, O. Berkhemer, W. Van Zwam, A. Van Es, D. Dippel, D. Bos (*The Netherlands*)
- 18:34 **HOMOGENEOUS APPLICATION OF IMAGING CRITERIA IN A MULTICENTER TRIAL SUPPORTED BY INVESTIGATOR TRAINING: A REPORT FROM THE WAKE-UP STUDY**
I. Galinovic, V. Dicken, J. Heitz, J. Klein, J. Puig, J. Guibernau, A. Kemmling, S. Siemonsen, K. Villringer, L. Neeb, J. Gregori, F. Weiler, S. Pedraza, G. Thomalla, J. Fiehler, C. Gerloff, J. Fiebach (*Germany*)
- 18:42 **CAPILLARY TRANSIT TIME HETEROGENEITY USING MR PERFUSION PREDICTS FAVORABLE OUTCOME AND INTRACEREBRAL HAEMORRHAGE IN PATIENTS WITH ISCHEMIC STROKE DUE TO LARGE VESSEL OCCLUSION**
S. Mundiyanapurath, S. Loebel, A. Potreck, J. Pfaff, A. Radbruch, M. Bendszus, P.A. Ringleb (*Germany*)
- 18:50 **NO DELAY IN MRI SELECTION OF PATIENTS FOR ENDOVASCULAR THERAPY**
C.Z. Simonsen, A.J. Yoo, M. Rasmussen, L.H. Sørensen, G. Andersen (*Denmark*)



E-Poster Discussion: Service Organisation

Convenor: M. Gallofre Lopez (*Spain*)

18:10 **QUALITY INDICATORS OF STROKE IN ESTONIA**

J. Kõrv, A. Kreis, R. Vibo (*Estonia*)

18:18 **GLOBAL TELEMEDICINE PLATFORM FOR INTEGRAL CARE TO ACUTE STROKE. BRINGING TREATMENT TO ALL PATIENTS**

A. Palomino, G. Escobar, R. Perez, M. Marin, D. Jimenez, A. Caballero, C. Parra, J.L. Garcia-garmendia, V. Flora maria, A. Fernandez (*Spain*)

18:26 **THE PRACTICAL APPLICATION OF NEW EU GENERAL DATA PROTECTION REGULATION LEGISLATION TO AN ONGOING INTERNATIONAL STROKE REGISTRY**

S. Simsic, A. Grecu, R. Mikulik (*Czech Republic*)

18:34 **FACTORS FOR DELAYED CALL FOR EMERGENCY MEDICAL SERVICES IN ACUTE STROKE PATIENTS IN COMMUNITY HOSPITALS – DATA FROM POMERANIAN STROKE REGISTRY**

G. Kozera, W. Szczuchniak, P. Sobolewski, W. Nyka (*Poland*)

18:42 **SYSTEMIC FACTORS ASSOCIATED WITH STROKE DOOR TO NEEDLE TIME: A COUNTRY WIDE ANALYSIS**

A. Hunter, M. Mccarron, F. Mcerlain, F. Kennedy, I. Wiggam, M. McCormick, K. Dynan, D. Vahidassr, J. Kelly, M. Matthews, J. Mckee, S. Grimes, E. Hopkins, M. Stevenson, F. McVerry (*Ireland*)

18:50 **DRAMATIC IMPROVEMENT OF ACUTE ISCHAEMIC STROKE MANAGEMENT IN THE RHONE AREA BETWEEN 2007 AND 2016: A POPULATION BASED BEFORE AFTER PROSPECTIVE STUDY**

A.M. Schott, M. Viprey, A. Termoz, C. Della Vecchia, N. Perreton, E. Bravant, N. Nighoghossian, S. Cakmak, C. Pidoux, B. Ducreux, T. Bony, V. Potinet, M. Douplat, K. Tazarourte, S. Meyran, A. Sigal, J. Haesebaert, L. Derex (*France*)

E-Poster Discussion: Stroke Prognosis and Outcome 2

Convenor: K. Butcher (*Canada*)

- 18:10 **THE EFFECT OF TRANSDERMAL GLYCERYL TRINITRATE IN ACUTE STROKE PATIENTS WITH CAROTID STENOSIS: DATA FROM THE EFFICACY OF NITRIC OXIDE IN STROKE TRIAL**

J.P. Appleton, L.J. Woodhouse, Z.K. Law, N. Sprigg, P.M. Bath (*United Kingdom*)

- 18:18 **HEMISPHERIC LATERALITY AND CLINICAL OUTCOME IN REVASCAT POPULATION**

M. Gomis, X. Urra, E. Cobo, M. Rubiera, L. Dorado, P. Cardona, M. Muchada, B. Lara, S. Rudilosso, S. Bonet, L. Muñoz, L. San Roman, T. Jovin, A. Dávalos (*Spain*)

- 18:26 **INSULIN RESISTANCE AND CLINICAL OUTCOMES AFTER ACUTE ISCHEMIC STROKE**

R. Matsuo, T. Ago, J. Hata, Y. Wakisaka, J. Kuroda, T. Kitazono, M. Kamouchi (*Japan*)

- 18:34 **FACTORS, TRENDS AND LONG-TERM OUTCOMES FOR STROKE PATIENTS RETURNING TO WORK: THE SOUTH LONDON STROKE REGISTER (SLSR)**

A. Sen, A. Bisquera, C. Mckevitt, A. Rudd, C. Wolfe, A. Bhalla (*United Kingdom*)

- 18:42 **DECOMPRESSIVE SURGERY IN AGED PATIENTS WITH SPACE-OCCUPYING MCA INFARCTION (DECAP): A PROSPECTIVE OBSERVATIONAL STUDY**

J. Rahmig, S. Wöpking, W. Hacke, E. Jüttler, R. Limprecht, L. Uhlmann, J. Barlinn, G. Schackert, H. Reichmann, H. Schneider (*Germany*)

- 18:50 **IS FUNCTIONAL OUTCOME DIFFERENT IN POSTERIOR AND ANTERIOR CIRCULATION STROKE?**

P. Sommer, A. Posekany, W. Serles, M. Marko, S. Scharer, E. Fertl, J. Ferrari, W. Lang, M. Vosko, S. Kiechl, M. Knoflach, S. Greisenegger (*Austria*)



E-Poster Discussion: Clinical Trials Non Reperfusion

Convenor: P. Bath (*United Kingdom*)

18:10 EFFECT AND SAFETY OF TENECTEPLASE IN STROKE PATIENTS WITH ATRIAL FIBRILLATION. THE NOR-TEST STUDY

A.H. Aamodt, N. Logallo, E. Eriksen, M. Kurz, A. Fromm, L.H. Alteheld, H. Næss (*Norway*)

18:18 EFFECT OF CILOSTAZOL AND ISOSORBIDE MONONITRATE ON CEREBROVASCULAR REACTIVITY IN LACUNAR STROKE: THE LACI-1 TRIAL

G. Blair, M. Stringer, K. Flaherty, Y. Shi, I. Hamilton, R. Dooley, J. Appleton, Z.K. Law, J. Boyd, C. Richardson, N. Sprigg, F. Doubal, M. Thrippleton, P. Bath, J. Wardlaw (*United Kingdom*)

18:26 EARLY REMOTE ISCHAEMIC CONDITIONING IN ACUTE STROKE (ERICS)

M. Kate, S. Varadhrajan, V. Jaison, K. Butcher, D. Hess, J. Pandian (*India*)

18:34 COMPARISON OF THE EFFECT ON BLOOD PRESSURE VARIABILITY IN ACUTE ISCHEMIC STROKE: FIMASARTAN VS. VALSARTAN

D.H. Shin, S. Song, Y.B. Lee (*Republic of Korea*)

18:42 IMPACT OF ATRIAL FIBRILLATION DIAGNOSIS OR CAROTID ENDARTERECTOMY REQUIREMENT ON OUTCOME IN PATIENTS FROM THE TRIPLE ANTIPLATELETS FOR REDUCING DEPENDENCY AFTER ISCHAEMIC STROKE (TARDIS) TRIAL

L.J. Woodhouse, J.P. Appleton, K. Flaherty, R. Dineen, N. Sprigg, P.M. Bath (*United Kingdom*)

18:50 SAFETY, PHARMACOKINETICS, AND PHARMACODYNAMICS OF AN ORAL FORMULATION OF DS-1040, AN INHIBITOR OF THE ACTIVATED FORM OF THROMBIN-ACTIVATABLE FIBRINOLYSIS INHIBITOR (TAFIA), IN HEALTHY SUBJECTS

J. Zhou, T. Limsakun, O. Yin, V. Warren, C. Zamora, G. Atiee, J. Kochan, J. Pav, F. Kobayashi, V. Vijay, V. Dishy (*USA*)

E-Poster Discussion: Acute Reperfusion

Convenor: N. Ahmed (*Sweden*)

18:10 **ANGIOPLASTY FOR INTRACRANIAL VERTEBROBASILAR STENOSIS: A META-ANALYSIS OF PROCEDURAL RISKS**

S. Amin-Hanjani, Y.F. Chen, H. Shallwani, T. Turan, H. Woo, S. Prabhararan, F.T. Charbel, A. Siddiqui (*USA*)

18:18 **WHITE MATTER HYPERINTENSITY SEVERITY PREDICTS DEVELOPMENT OF CEREBRAL OEDEMA IN PATIENTS WITH ISCHEMIC STROKE TREATED WITH IV THROMBOLYSIS: IMPLICATIONS FOR INFARCT GROWTH AND FUNCTIONAL OUTCOME**

S. Lorenzano, M. Bruni, D. Carlo, M.C. Caselli, A. Zingaro, F. Orlando, D. Toni (*Italy*)

18:26 **EX-VIVO GENERATION OF PLASMIN FROM PATIENTS WITH ACUTE ISCHAEMIC STROKE IS PREDICTIVE OF SUCCESSFUL THROMBOLYSIS**

R. Medcalf, S. Harman, T. Lillcrap, D. Draxler, B. Niego, H. Ho, F. McCutcheon, T. Kleinig, S. Koblar, A. Hamilton-Bruce, C. Garcia-Esperon, L. Lincz, A. Bivard, J. Attia, J. Maguire, E. Holliday, C. Levi (*Australia*)

18:34 **TEMPORARY TRENDS IN DOOR-TO-NEEDLE TIME AND OUTCOME BETWEEN 2010-2017: NATION-WIDE STUDY**

R. Mikulík, M. Bar, S. Bělašková, R. Herzig, J. Neumann, D. Sanak, O. Skoda, A. Tomek, D. Vaclavik (*Czech Republic*)

18:42 **ENDOVASCULAR THERAPY WITH OR WITHOUT INTRAVENOUS LOW DOSE ALTEPLASE IN ACUTE STROKE PATIENTS WITH ANTERIOR LARGE VESSEL OCCLUSION**

H. Yamagami, K. Uchida, S. Yoshimura, T. Morimoto, N. Sakai, K. Toyoda (*Japan*)

18:50 **INTRACEREBRAL BLEEDING UNDER DUAL ANTIPLATELETS AFTER EMERGENCY RECANALIZATION OF INTRACRANIAL AND EXTRACRANIAL LARGE ARTERY OCCLUSION**

Y. Zdunczyk, O. Beuing, S. Hause, J. Neumann, A. Breja, S. Schreiber, A. Lenz, H.J. Heinze, M. Skalej, M. Goertler (*Germany*)



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SCIENTIFIC PROGRAMME

FRIDAY, 18 MAY 2018

8:30 - 10:00

Hall C

Scientific Session: Intracerebral Haemorrhage (II) Joint ESO – SSA Session

Convenors: H. Dewey (*Australia*)
A. Meretoja (*Finland*)

8:30 **CT-SCAN: IS IT STILL A USEFUL TOOL FOR DETERMINING THE UNDERLYING CAUSE OF THE BLEED?**

R. Al-Shahi Salman (*United Kingdom*)

8:45 **THE ICH SPOT SIGN: OLD STAR OR STILL HYPE?**

C. Molina (*Spain*)

9:00 **GENETIC TESTING IN ICH WORK-UP: WHEN SHOULD WE THINK ABOUT IT?**

J. Rosand (*USA*)

9:15 **WHAT CAN WE LEARN FROM PET IMAGING IN ICH?**

N. Raposo (*France*)

9:30 **LONG-TERM PROGNOSIS IN ICH SURVIVORS: WHAT DOES THE NEUROLOGIST NEED TO KNOW?**

C. Delcourt (*Australia*)

9:45 **DISCUSSION**

Allied Health Care Session: Palliative Care and Ethical Considerations in Stroke

Convenors: C. Thetford (*United Kingdom*)
K. Szabo (*Germany*)

8:30 **THE CONCEPT OF PALLIATIVE CARE IN STROKE - HELP OR HINDRANCE?**

E. Cowey (*United Kingdom*)

8:45 **STROKE SPECIFIC PALLIATIVE CARE**

C. Thetford (*United Kingdom*)

9:00 **PROGNOSIS IN STROKE**

A. Alonso (*Germany*)

9:15 **INITIATING CONVERSATIONS ABOUT END OF LIFE IN ACUTE CARE: CHALLENGES AND SOLUTIONS**

C. Burton (*United Kingdom*)

9:30 **ETHICAL DECISION MAKING ON THE STROKE UNIT - CASE STUDIES**

K. Szabo (*Germany*)

9:45 **DISCUSSION**



Teaching Course: Stroke in Systemic Diseases

TICKET *Pre-registration required*

Convenors: P. Michel (*Switzerland*)
S. Kiechl (*Austria*)

8:30 **CANCER AND STROKE**

B. Navi (*USA*)

8:50 **AUTOIMMUNE DISEASES AND STROKE**

S. Kiechl (*Austria*)

9:10 **PROTHROMBOTIC CONDITIONS AND STROKE (JAK2 MUTATIONS, ANTI-PHOSPHOLIPID SYNDROME, TTP AND CO)**

P. Michel (*Switzerland*)

9:30 **INFECTIOUS DISEASES AND STROKE**

G. Micieli (*Italy*)

9:50 **DISCUSSION**

Scientific Session: Hypertension – at the Root of Stroke



Ask the speaker

Convenors: T. Robinson (*United Kingdom*)
F.R. Pezzella (*Italy*)

8:30 **HYPERTENSION: EVOLUTION FROM MID- TO LATE-LIFE?**

P. Boutouyrie (*France*)

8:48 **HYPERTENSION: A CHRONIC DISEASE OF THE BRAIN?**

A. Tuttolomondo (*Italy*)

9:06 **ARTERIAL STIFFNESS – CARDIOVASCULAR OUTCOME OR TARGET FOR TREATMENT?**

A. Webb (*United Kingdom*)

9:24 **NEW TREATMENT STRATEGIES: LOW-DOSE ANTIHYPERTENSIVE COMBINATIONS**

C. Anderson (*Australia*)

9:42 **NEW TREATMENT STRATEGIES: IS THERE HOPE FOR TECHNOLOGICAL INTERVENTIONS, FROM BARORECEPTOR STIMULATION TO RENAL DENERVATION**

A. Persu (*Belgium*)



Scientific Session: ESO Guidelines Session 2018

Convenors: T. Steiner (*Germany*)

G. Ntaios (*Greece*)

8:30 **ESO GUIDELINE ON SECONDARY PREVENTION (PART 2)**

K. Klijn (*The Netherlands*)

8:45 **ESO GUIDELINES ON STROKE & DYSPHAGIA**

R. Dziewas (*Germany*)

9:00 **ESO GUIDELINE VKA NOAC REVERSAL**

H. Christensen (*Denmark*)

9:15 **ESO GUIDELINES ON RECANALISATION MANAGEMENT**

G. Turc (*France*)

9:30 **ESO GUIDELINE ON MANAGEMENT OF UNRUPTURED ANEURYSMS**

G. Rinkel (*The Netherlands*)

9:45 **DISCUSSION**

Scientific Communication: Reperfusion Trials

Convenors: D. Dippel (*The Netherlands*)
S. Davis (*Australia*)

8:30 **DS-1040 ASSENT STUDY: A SINGLE ASCENDING-DOSE SAFETY STUDY IN PATIENTS WITH ACUTE ISCHEMIC STROKE**

J. Zhou, N. Peterson, K. White, C. Hsu, L. Akinsuyi, T. Mitov, S. Ziobro, G. Miller, G. Golikov, O. Yin, D. Kang, J. Pav, J. Kochan, T. Limsakun, V. Dishy, M. Grosso, M. Mercuri (*USA*)

8:40 **INTRAVENOUS THROMBOLYSIS IN ACUTE CENTRAL RETINAL ARTERY OCCLUSION – A PROSPECTIVE INTERVENTIONAL CASE SERIES**

S. Poli, M. Schultheiss, M. Spitzer, N. Feltgen, B. Spitzer, J. Huesing, A. Rupp, U. Ziemann, K. Bartz-Schmidt, F. Härtig (*Germany*)

8:50 **SAFETY OF THROMBOLYSIS WITH TENECTEPLASE IN STROKE MIMICS – RESULTS FROM THE NORWEGIAN TENECTEPLASE STROKE TRIAL (NOR-TEST)**

C.E. Kvistad, N. Vojtech, L. Thomassen, N. Logallo (*Norway*)

9:00 **A COMPARISON OF CLINICAL AND IMAGING MISMATCH RESULTS IN RANDOMISED TRIALS OF TENECTEPLASE VERSUS ALTEPLASE FOR ISCHAEMIC STROKE**

A. Bivard, X. Huang, C. Levi, B. Campbell, C. Bharath, D. Kalladka, F. Moreton, I. Ford, C. Bladin, S. Davis, G. Donnan, M. Parsons (*Australia*)

9:10 **FIRST-LINE CONTACT ASPIRATION VERSUS STENT RETRIEVER THROMBECTOMY IN ISCHAEMIC STROKE PATIENTS WITH LARGE VESSEL OCCLUSION: SYSTEMATIC REVIEW AND META-ANALYSIS**

M. Boulanger, B. Lapergue, F. Turjman, E. Touzé, M. Piotin, B. Gory (*France*)

9:20 **MODIFIED TICI2C/TICI 3 REPERFUSION SHOULD BE THE AIM OF MECHANICAL THROMBECTOMY: INSIGHTS FROM THE ASTER TRIAL**

C. Dargazanli, R. Fahed, R. Blanc, J. Labreuche, M. Piotin, B. Lapergue (*France*)

9:30 **IMPROVING SELECTION OF PATIENTS FOR ENDOVASCULAR TREATMENT OF ACUTE ISCHEMIC STROKE: EXTERNAL VALIDATION OF A CLINICAL DECISION TOOL IN DATA FROM THE HERMES COLLABORATION**

E. Venema, M. Mulder, B. Roozenbeek, S. Brown, C. Majoie, A. Demchuk, K. Muir, A. Dávalos, P. Mitchell, S. Bracad, M. Hill, P. White, B. Campbell, F. Guillemin, J. Saver, T. Jovin, M. Goyal, A. Van de Lugt, D. Dippel, H. Lingsma (*The Netherlands*)



9:40 **REPERFUSION WITH ADAPT TECHNIQUE USING ACE68 AND ACE64 IS SAFE AND EFFECTIVE IN LARGE VESSEL OCCLUSIONS OF THE ANTERIOR CIRCULATION – PROMISE STUDY RESULTS**

J. Fiehler, P. Schramm, P. Navia, R. Papa, J.Z. Parra, A.T. Weitz, W. Weber, P. Michel, V.M. Pereira, T. Krings, L. Pierot, J. Gralla, P. Santalucia, T.H. Lo (*Germany*)

9:50 **SOFTWARE-BASED, AUTOMATED CALCULATION OF THE ASPECT SCORE IN PATIENTS SUFFERING FROM EMERGENT VESSEL OCCLUSIONS IN THE ANTERIOR CIRCULATION – CLINICAL FEASIBILITY AND RELIABILITY**

B. Friedrich, S. Mönch, M. Berndt, S. Wunderlich, C. Seifert, M. Lehm, T. Boeckh-Behrens, C. Zimmer, C. Maegerlein (*Germany*)

8:30 - 10:00

Hall K3

Scientific Session: Stroke Immunology & Experimental Stroke

Convenors: S.M. Allan (*United Kingdom*)
A. Rosell (*Spain*)

8:30 **STROKE AND ATHEROPROGRESSION**

A. Liesz (*Germany*)

8:45 **ROLE OF MICROGLIA IN NEUROPROTECTION AND RECOVERY FROM STROKE**

A. Denes (*Hungary*)

9:00 **THE GUT-BRAIN-IMMUNE AXIS IN STROKE**

J. Anrather (*USA*)

9:15 **INTEGRATING MOLECULAR IMAGING WITH OTHER IMAGING TECHNOLOGIES**

D. Vivien (*France*)

9:30 **ROLE OF TOLL-LIKE RECEPTOR 4 IN MEDIATING CEREBRAL DAMAGE AND INFLAMMATION IN STROKE**

I. Lizasoain (*Spain*)

9:45 **DISCUSSION**

8:30 - 10:00

Hall J1

Workshop: Simulation Workshop on Stroke Diagnostics and Treatment (focused on IV tPA application)

 *Pre-registration required*

Convenor: W. Pfeilschifter (*Germany*)

Demonstrators: A. Nordanstig (*Sweden*)

K. Gullbrandsson (*Sweden*)

8:30 - 10:00

Hall J2

Structured Case Presentation: Stroke Prevention

 *Pre-registration required*



Voting

Convenors: J.L. Mas (*France*)

M. Paciaroni (*Italy*)

08:30 **CASE 1: RECURRENT CARDIOEMBOLIC STROKE DESPITE APPROPRIATE TREATMENT**

J.L. Mas (*France*)

09:00 **CASE 2: MANAGEMENT OF A PATIENT WITH RECURRENT STROKES AND INTRACRANIAL ARTERY STENOSIS**

M. Paciaroni (*Italy*)

09:30 **CASE 3**

Please refer to the conference app

10:00 - 10:30

Exhibition Area

Coffee Break, Exhibition, E-Poster Viewing



Scientific Session: Stroke and Related Conditions Joint ESO – EAN Session

Convenors: F. Fazekas (*Austria*)
T. Sairanen (*Finland*)

10:30 **RETINAL ARTERY OCCLUSION: DIAGNOSIS AND MANAGEMENT**

A.H. Aamodt (*Norway*)

10:45 **THROMBOTIC MICROANGIOPATHIES DURING PREGNANCY: THE BRAIN CONNECTION**

M. Jourdain (*France*)

11:00 **POST-STROKE SLEEP DISORDERED BREATHING: WHEN AND WHY IS SCREENING NEEDED?**

D. Hermann (*Germany*)

11:15 **CANCER AND STROKE**

V. Padjen (*Serbia*)

11:30 **STROKE MIMICS AND STROKE CHAMELEONS**

D. Leys (*France*)

11:45 **DISCUSSION**

Allied Health Care Session: Mobility and Life After Stroke

Convenors: K. Stibrant Sunnerhagen (*Sweden*)
H. Persson (*Sweden*)

10:30 **SURVIVAL AFTER STROKE IN EASTERN EUROPE**

R. Vibo (*Estonia*)

10:45 **MOBILITY AFTER STROKE - "GETTING OUT OF THE HOUSE STUDY"**

P. Logan (*United Kingdom*)

11:00 **FIT TO DRIVE AFTER STROKE - ON ROAD DRIVING ASSESSMENT**

H. Selander (*Sweden*)

11:15 **EXPERIENCE OF STROKE SURVIVORS WITH THE HEALTH SERVICES AND LONG-TERM FOLLOW-UP NEEDS**

M. Kirkevold (*Norway*)

11:30 **LONG-TERM OUTCOME AND LIFE AFTER SUBARACHNOID HAEMORRHAGE**

H. Persson (*Sweden*)

11:45 **DISCUSSION**



Teaching Course: How to improve My Skills in Stroke Research?**TICKET** *Pre-registration required*

Convenors: J. Dawson (*United Kingdom*)
S. Sacco (*Italy*)

10:30 BASIC RESEARCH- SIMULATING STROKE IN THE LABORATORY

M. Gutiérrez-Fernández (*Spain*)

10:50 TIPS FOR DESIGNING SUCCESSFUL ACADEMIC RESEARCH

J. Dawson (*United Kingdom*)

11:10 HOW TO DEVELOP A SYSTEMATIC REVIEW AND META-ANALYSIS. PRACTICAL USE OF META-ANALYSIS SOFTWARE

S. Sacco (*Italy*)

11:30 WRITING A SCIENTIFIC PAPER

S. Ricci (*Italy*)

11:50 DISCUSSION

Scientific Session: SAH and Vascular Malformations Joint ESO - EANS session

Convenors: M. Köhrmann (*Germany*)
M. Wermer (*The Netherlands*)

10:30 **DIAGNOSIS OF SUBARACHNOID HAEMORRHAGE**

M. Vergouwen (*The Netherlands*)

10:45 **TREATMENT OF SUBARACHNOID HAEMORRHAGE**

T. Gaberel (*France*)

11:00 **UNRUPTURED INTRACRANIAL ANEURYSMS - PATHOPHYSIOLOGY AND TREATMENT**

N. Etminan (*Germany*)

11:15 **UNRUPTURED AVMS AND DURAL FISTULAS - DIAGNOSIS AND TREATMENT**

C. Cognard (*France*)

11:30 **MICROVASOSPASM AND EARLY ISCHEMIC DAMAGE AFTER SAH: OPPORTUNITY FOR INTERVENTION**

N. Plesnila (*Germany*)

11:45 **DISCUSSION**



Scientific Communication: Reperfusion IV

Convenors: P. Khatri (*USA*)
G. Thomalla (*Germany*)

10:30 SAFETY AND EFFICACY OF THROMBECTOMY IN PATIENTS WITH MILD SYMPTOMS OR LARGE INFARCT CORE: DATA FROM THE BEYOND-SWIFT REGISTRY

J. Kaesmacher, L. Panos, P. Chaloulos-Iakovidis, C. Maegerlein, B. Friedrich, M. Ribo, P. Michel, S. Hajdu, V.M. Pereira, V. Costalat, J. Gralla, U. Fischer (*Switzerland*)

10:40 MECHANICAL THROMBECTOMY VERSUS COMBINED THERAPY WITH THROMBOLYSIS IN ACUTE ISCHEMIC STROKE: OUTCOME DATA FROM THE NORDICTUS REGISTRY

M. Castellanos, A. Roel, D. Fernández-Couto, E. Palacio, M. De Lera, P. De la Riva, P. Suárez-Santos, J.J. Timiraos-Fernández, E. Rodríguez-Castro, I. Azkune-Calle, Y. Bravo, H. Tejada-Meza, M.M. Freijo, R. De la Fuente, J.L. Maciñeiras, J. Arenillas (*Spain*)

10:50 ENDOVASCULAR TREATMENT IN ELDERLY PATIENTS WITH ACUTE ISCHEMIC STROKE IN THE MR CLEAN REGISTRY

A.E. Groot, K.M. Treurniet, H.F. Lingsma, W. Hinsenveld, B. Roozenbeek, W. Schonewille, H.A. Marquering, R. Van den Berg, D.W.J. Dippel, C.B.L.M. Majoie, Y.B.W.E.M. Roos, J.M. Coutinho (*The Netherlands*)

11:00 AREA-WIDE IMPLEMENTATION OF MECHANICAL THROMBECTOMY IN GERMANY - ANALYSIS OF ADMINISTRATIVE DATA FROM 2010 TO 2016

R. Weber, J. Eyding, M. Kitzrow, D. Bartig, C. Weimar, W. Hacke, C. Krogias (*Germany*)

11:10 RAPIDLY IMPROVING SYMPTOMS IN STROKE PATIENTS WITH LARGE VESSEL OCCLUSION PRIOR TO ENDOVASCULAR TREATMENT

B. Van der Veen, A. Groot, S. Van Schaik, P. Nederkoorn, R.M. Van den Berg - Vos, J. Coutinho (*The Netherlands*)

11:20 BALLOON GUIDE CATHETER IN ENDOVASCULAR TREATMENT FOR ACUTE ISCHEMIC STROKE: RESULTS FROM THE MR CLEAN REGISTRY

R.J.B. Goldhoorn, N. Duijsters, C.B.L.M. Majoie, Y. Roos, D.W.J. Dippel, A. Van der Lugt, A. Vos, J. Boiten, R.J. Van Oostenbrugge, W.H. Van Zwam (*The Netherlands*)

11:30 SAFETY AND EFFICACY OF DISTAL ASPIRATION FOR ENDOVASCULAR TREATMENT OF ANTERIOR ACUTE ISCHEMIC STROKE

P. Baena Palomino, J. Ortega Quintanilla, E. Zapata Arriaza, J. Alcalde, I. Gutiérrez, F. Moniche, I. Escudero, J. De La Torre, L. Lebrato, A. Cayuela, J.A. Cabezas, B. Pardo, L. Ainz, S. Pérez, R. De Torres, M.Á. Gamero, J. Montaner, A. González (*Spain*)

11:40 **ANAESTHETIC MANAGEMENT DURING ENDOVASCULAR TREATMENT OF ACUTE ISCHEMIC STROKE: RESULTS FROM THE MR CLEAN REGISTRY**

R. Goldhoorn, M.L. Bernsen, J. Hofmeijer, D. Dippel, A. Van der Lugt, Y. Roos, C. Majoie, J.A. Vos, J. Boiten, B. Emmer, R. Van Oostenbrugge, W. Van Zwam (*The Netherlands*)

11:50 **SAFETY AND EFFICACY OF ROUTINE ENDOVASCULAR THROMBECTOMY IN ACUTE OCCLUSIVE STROKE RECORDED IN THE SITS INTERNATIONAL THROMBECTOMY REGISTER - AN OBSERVATIONAL STUDY**

N. Ahmed, M. Mazya V, A.P. Nunes, T. Moreira, R. Tassi, J.A. Egido, A. Zini, P. Nichelli, V.M. Rand, L. Jurák, D. Strbian, A. Dávalos, K.R. Lees, D. Toni, R. Mikulik, S. Holmin (*Sweden*)

10:30 - 12:00

Hall K2

Scientific Communication: Late Breaking

Convenors: P. Bath (*United Kingdom*)
C. Jern (*Sweden*)

10:30 **TO SCAN OR NOT TO SCAN: FOLLOW-UP CT SCANNING FOR MANAGEMENT OF CHRONIC SUBDURAL HEMATOMA AFTER NEUROSURGICAL EVACUATION (TOSCAN) – A RANDOMIZED, CONTROLLED TRIAL**

P. Schucht, U. Fischer, C. Fung, C. Bernasconi, J. Fichtner, S. Vulcu, D. Schöni, A. Nowacki, S. Wanderer, C. Eisenring, A.K. Krähenbühl, H. Mattle, N. Söll, L. Tochtermann, W.J. Z'Graggen, J. Stephanie Theresa, J. Gralla, P. Mordasini, A. Raabe, J. Beck (*Switzerland*)

10:40 **PHARYNGEAL ELECTRICAL STIMULATION FOR EARLY DECANNULATION IN TRACHEOTOMISED STROKE PATIENTS WITH NEUROGENIC DYSPHAGIA (PHAST-TRAC): A PROSPECTIVE RANDOMISED SINGLE-BLINDED INTERVENTIONAL STUDY – SECONDARY OUTCOMES**

R. Dzielas, R. Stellato, I. Van der Tweel, E. Walther, C. Werner, T. Braun, G. Citerio, M. Jandl, M. Friedrichs, K. Nötzel, M. Vosko, S. Mistry, S. Hamdy, S. McGowan, T. Warnecke, P. Zwittag, P. Bath (*Germany*)

10:50 **PUBLIC HEALTH AND COST CONSEQUENCES OF TREATMENT DELAYS IN ENDOVASCULAR THROMBECTOMY FOR STROKE BASED ON HERMES COLLABORATION DATA**

W.G. Kunz, M.A. Almekhlafi, B.K. Menon, J.L. Saver, D.W.J. Dippel, C.B.L.M. Majoie, T.G. Jovin, A. Dávalos, S. Bracard, F. Guillemin, B.C.V. Campbell, P.J. Mitchell, P. White, K.W. Muir, S. Brown, A.M. Demchuk, M.D. Hill, M. Goyal (*Canada*)



- 11:00 **LIFETIME BENEFIT AND COST CONSEQUENCES OF THE ACHIEVED GRADE OF REPERFUSION AFTER THROMBECTOMY FOR STROKE BASED ON HERMES COLLABORATION DATA**
 W.G. Kunz, M.A. Almekhlafi, B.K. Menon, J.L. Saver, D.W. Dippel, C.B. Majoie, D.S. Liebeskind, T.G. Jovin, A. Davalos, F. Guillemin, S. Bracard, B.C. Campbell, P.J. Mitchell, P. White, K.W. Muir, S. Brown, A.M. Demchuk, M.D. Hill, M. Goyal (*Canada*)
- 11:10 **VARIATIONS IN PRACTICE PATTERNS AND OUTCOMES AFTER STROKE ACROSS COUNTRIES AT DIFFERENT ECONOMIC LEVELS: THE INTERSTROKE STUDY**
P. Langhorne, M. O'Donnell, D. Xavier, S.L. Chin, H. Zhang, A. Avezum, N. Mathur, M. Turner, M.J. MacLeod, S. Yusuf (*United Kingdom*)
- 11:20 **OPTIMIZING PATIENT SELECTION FOR ENDOVASCULAR TREATMENT IN ACUTE ISCHEMIC STROKE (SELECT): A PROSPECTIVE NON-RANDOMIZED MULTICENTER COHORT STUDY OF IMAGING SELECTION**
A. Sarraj, A. Hassan, R. Gupta, C. Sitton, J. Grotta, C. Cai, G. Cutter, B. Imam, S. Reddy, K. Parsha, N. Vora, M. Abraham, R. Edgell, F. Hellinger, D. Haussen, H. Kamal, L. McCullough, M. Lansberg, S. Savitz, G. Albers (*USA*)
- 11:30 **RELATIVE IMPORTANCE OF FACTORS INFLUENCING DECISION TO PROCEED WITH ENDOVASCULAR THERAPY IN STROKE PATIENTS RESULTS FROM AN INTERNATIONAL MULTIDISCIPLINARY SURVEY**
A.T. Wilson, M.A. Almekhlafi, N. Kashani, W.G. Kunz, B. Baxter, S. Pillai, B. Campbell, P. Mitchell, U. Fischer, A.A. Rabinstein, S. Yoshimura, J.H. Heo, B.M. Kim, M. Cherian, F. Turjman, B.K. Menon, M. Foss, M.D. Hill, G. Saposnik, M. Goyal (*Canada*)
- 11:40 **PHYSICAL ACTIVITY IN SUBACUTE STROKE – PHYS-STROKE**
A. Flöel, A. Nave, T. Rackoll, U. Grittner, H. Bläsing, A. Gorsler, D. Nabavi, H. Audebert, E. Steinhagen-Thiessen, A. Meisel, M. Endres, S. Hesse, M. Ebinger (*Germany*)

10:30 - 12:00

Hall K3

Scientific Session: The Challenge of ICH - a High Burden Disease with Controversial Management Joint ESO - IASO Session

Convenors: E. Díez-Tejedor (*Spain*)

A. Massaro (*Brazil*)

10:30 ICH EPIDEMIOLOGY AND BURDEN RELATED TO COUNTRY INCOME LEVEL

C. Sacks (*Chile*)

10:50 ACUTE CARE IN ICH: THE ROLE OF STROKE UNITS

M. Alonso de Leciana (*Spain*)

11:10 THE CHALLENGE OF ICH RELATED TO ANTICOAGULANTS: ROLE OF ANTICOAGULATION REVERSAL

S. Poli (*Germany*)

11:30 IS THERE STILL A ROLE FOR SURGERY IN THE LIGHT OF CLINICAL ICH TRIALS?

U. Fischer (*Switzerland*)

11:50 DISCUSSION

10:30 - 12:00

Hall J1

Workshop: Simulation Workshop on Stroke Treatment Logistics (Focused on Logistics of IV tPA Application)

TICKET *Pre-registration required*

Convenor: V. Svobodova (*Czech Republic*)

Demonstrators: P. Martínez-Sánchez (*Spain*)

R. Neves (*United Arab Emirates*)



10:30 - 12:00

Hall J2

Teaching Course: ESO Stroke Unit Certification

TICKET *Pre-registration required*

Convenors: U. Waje Andreassen (*Norway*)
S. Engelter (*Switzerland*)

10:30 **INTRODUCTION**

U. Waje Andreassen (*Norway*)

10:40 **CERTIFICATIONS**

S. Engelter (*Switzerland*)

11:20 **AUDITOR SCHOOL**

D. Nabavi (*Germany*)

12:00 - 12:30

Exhibition Area

Lunch Break, Exhibition, E-Poster Viewing

12:30 - 14:00

Hall K3

Educational Session on Embolic Stroke of Undetermined Source (ESUS) - EBAC Accredited Educational Programme

Not Included In Main CME/CPD Event. For Details See page 343

12:45 - 14:05

Hall C

Large Clinical Trials 2

Convenors: H.B. van der Worp (*The Netherlands*)
J. Dawson (*United Kingdom*)

12:45 **BEST E-POSTER AWARDS**

J. Dawson (*United Kingdom*)

12:50 **BLOOD PRESSURE AND FUNCTIONAL OUTCOME AFTER ENDOVASCULAR TREATMENT: RESULTS FROM THE MR CLEAN REGISTRY**

S.A. Van den Berg, M.J.H.L. Mulder, R.B. Goldhoorn, J.M. Coutinho, B. Roozenbeek, D.W.J. Dippel, Y.B.W.E.M. Roos, H.B. van der Worp, P.J. Nederkoorn (*The Netherlands*)
On behalf of the MR CLEAN Registry investigators

- 13:00 **TIME TO TREATMENT AND OUTCOMES IN THROMBECTOMY AT THE EXTENDED TIME WINDOW IN AURORA: POOLED ANALYSIS OF THE DAWN, DEFUSE-3, POSITIVE, ESCAPE AND REVASCAT TRIALS**
R.G. Nogueira, T. Jovin, G. Albers, M. Goyal, M. Hill, A. Demchuk, A. Siddiqui, D. Fiorella, A. Davalos, L. Maarten (USA) On behalf of the AURORA Investigators
- 13:10 **EFFECT OF INTRAVENOUS THROMBOLYSIS ON PATIENT REPORTED OUTCOME MEASURES IN STROKE PATIENTS WITH UNKNOWN TIME OF SYMPTOM ONSET – RESULTS OF RANDOMIZED, CONTROLLED WAKE-UP TRIAL**
C. Gerloff, C.Z. Simonsen, F. Boutitie, B. Cheng, T.H. Cho, M. Ebinger, M. Endres, J.B. Fiebach, J. Fiehler, I. Ford, I. Galinovic, R. Lemmens, K. Muir, N. Nighoghossian, S. Pedraza, J. Puig, P. Roy, V. Thijs, G. Thomalla (Germany) On behalf of the WAKE-UP investigators
- 13:20 **RECURRENT CLINICAL ISCHEMIC STROKES IN THE GORE REDUCE TRIAL OF PFO CLOSURE**
S. Kasner, T. Turan, C. Kase, H. Rowley, G. Andersen, H. Iversen, J. Volpi, S. Messe, L. Sondergaard, J. Rhodes, C. Sjostrand (USA) On behalf The REDUCE Clinical Study Investigators
- 13:30 **GOTHENBURG VERY EARLY SUPPORTED DISCHARGE: A BLOCK-RANDOMIZED TRIAL WITH SUPERIORITY DESIGN OF VERY EARLY SUPPORTED DISCHARGE FOR PATIENTS WITH STROKE**
L. Rafsten, A. Danielsson, C. Petersson, A. Nordin, A. Björkdal, A. Axelsson, A.L. Nilsson, M. Larsson, K. Friberg, K.S. Sunnerhagen (Sweden)
- 13:40 **DOES TRANEXAMIC ACID LEAD TO INCREASED DWI HYPERINTENSE LESION PREVALENCE IN PATIENTS WITH SPONTANEOUS INTRACEREBRAL HAEMORRHAGE? RESULTS OF THE TICH-2 MRI SUB-STUDY**
R. Dineen, S. Psczolkowski, K. Flaherty, Z. Law, R. Gallagher, D. Swienton, P. Morgan, I. Roberts, D. Werring, R. Al-Shahi Salman, T. England, P. Bath, N. Sprigg (United Kingdom)
- 13:50 **RIVAROXABAN OR ASPIRIN FOR PATENT FORAMEN OVALE: PRESPECIFIED SUBGROUP ANALYSIS FROM THE NAVIGATE ESUS TRIAL**
S. Kasner (USA) On behalf of the NAVIGATE ESUS Steering Committee and Investigators
- 14:00 **CLOSING REMARK**
H.B. van der Worp (The Netherlands)



14:05 - 14:15

Short Break

14:15 - 16:00

Hall E1

Allied Health Care Session: Fundamentals of Stroke Care Symposium

Convenor: C. Watkins (*United Kingdom*)

14:15 **ACUTE STROKE TRIAGE & TREATMENT**

S. Middleton (*Australia*)

14:25 **NEUROLOGICAL/PHYSIOLOGICAL MONITORING**

B. Indredavik (*Norway*)

14:35 **SWALLOWING SCREENING, ASSESSMENT & MANAGEMENT**

M. Trapl-Grundschober (*Austria*)

14:45 **PREVENTING COMPLICATIONS**

P. Langhorne (*United Kingdom*)

14:55 **IDENTIFYING, PREVENTING & TREATING MOOD PROBLEMS**

J. de Man (*The Netherlands*)

15:05 **NURSING CARE IN THROMBOLYSIS**

G. Messchendorp (*The Netherlands*)

15:15 **DISCUSSION**

15:30 **NETWORKING RECEPTION**

14:15 - 15:45

Hall E4

Teaching Course: Challenges in Diagnosis and Management of Stroke in Pregnancy

TICKET *Pre-registration required*

Convenors: C. Kremer (*Sweden*)
I. Crassard (*France*)

14:15 **THE DIAGNOSTIC CHALLENGE: WHICH NEUROIMAGING MODALITY TO CHOOSE?**

C. Kremer (*Sweden*)

14:35 **RECANALISATION THERAPIES IN STROKE IN PREGNANCY**

S. Mustanoja (*Finland*)

14:55 **MANAGEMENT OF CEREBRAL VENOUS THROMBOSIS IN PREGNANCY AND PUERPERIUM**

I. Crassard (*France*)

15:15 **COUNSELING AND SECONDARY STROKE PREVENTION IN A PREGNANT WOMAN**

C. Bushnell (*USA*)

15:35 **DISCUSSION**

14:15 - 15:45

Hall H

Scientific Communication: Vascular Cognitive Impairment

Convenors: G.J. Biessels (*The Netherlands*)
Å. Lundgren-Nilsson (*Sweden*)

14:15 **LIFETIME RISK OF DEMENTIA IN PATIENTS WITH SEVERE CAROTID STENOSIS: EXTENDED POST-TRIAL FOLLOW-UP OF PATIENTS IN THE FIRST ASYMPTOMATIC CAROTID SURGERY TRIAL (ACST-1)**

M. Sneade, R. Bulbulia, H. Pan, R. Llewellyn-Bennett, W. Whiteley, S. Parish, S. Pendlebury, M. Bjorck, A. Gottsater, A. Halliday (*United Kingdom*)

14:25 **BARCELONA-ASIA STUDY: SUBCLINICAL CERVICO-CEREBRAL ATHEROSCLEROSIS AND PULSATILITY INDEX AS PREDICTORS OF LONG-TERM COGNITIVE IMPAIRMENT**

E. Lopez Cancio, A.M. Crespo Cuevas, A. Planas, D. Vilas, L. Martín, M. Hernandez-Perez, T. Canento, A. Gonzalez, C. Caceres, M. Mataro, L. Dorado, J. Arenillas, M. Millan, A. Dávalos (*Spain*)



- 14:35 **DOMAIN-SPECIFIC CHARACTERISATION OF EARLY COGNITIVE IMPAIRMENT FOLLOWING SPONTANEOUS INTRACEREBRAL HAEMORRHAGE**
G. Banerjee, M. Summers, E. Chan, D. Wilson, A. Charidimou, L. Cipolotti, D. Werring
(United Kingdom)
- 14:45 **RADIOLOGICAL AND PROGNOSTIC ASSOCIATIONS OF PRE-EXISTING COGNITIVE IMPAIRMENT IN PATIENTS WITH CARDIOEMBOLIC ISCHAEMIC STROKE OR TIA**
G. Banerjee, D. Wilson, G. Ambler, C. Shakeshaft, E. Chan, H. Cohen, T. Yousry, R. Al-Shahi Salman, G. Lip, K. Muir, M. Brown, R. Jäger, D. Werring *(United Kingdom)*
- 14:55 **WHO SHOULD UNDERGO A COMPREHENSIVE COGNITIVE ASSESSMENT AFTER A STROKE? THE GRECOGVASC COGNITIVE RISK SCORE**
O. Godefroy, H. Yaiche, H. Taillia, C. Nédélec-Ciceri, J. Varvat, J.L. Mas, M. Barbay *(France)*
- 15:05 **COGNITIVE RESERVE PROTECTS AGAINST DEMENTIA DUE TO CEREBRAL SMALL VESSEL DISEASE: DATA FROM A 5 YEAR FOLLOW-UP STUDY**
R. Brookes, E. Zeestraten, R.G. Morris, H.S. Markus *(United Kingdom)*
- 15:15 **DOES POST-STROKE COGNITIVE IMPAIRMENT IMPROVE? SYSTEMATIC REVIEW AND META-ANALYSIS**
J. Smith, S. Makin, M. Gillian, J. Wardlaw, C. Squires *(United Kingdom)*
- 15:25 **COGNITION AND PHYSICAL FUNCTIONING IN RELATION TO INCIDENT STROKE**
A. Heshmatollah, D.U. Mutlu, P.P.J. Koudstaal, P.M.A. Ikram, D.M.K. Ikram
(The Netherlands)
- 15:35 **A RANDOMISED CONTROLLED TRIAL OF AEROBIC EXERCISE AFTER TRANSIENT ISCHAEMIC ATTACK OR MINOR STROKE TO PREVENT COGNITIVE DECLINE: THE MOVEIT STUDY**
I. Deijle, R. Hemnes, M. Boss, W. Bosboom, G. Engels, B. Van den Berg, E. De Melker, E. Van Wegen, H. Weinstein, G. Kwakkel, S. Van Schaik, R.M. Van den Berg - Vos
(The Netherlands)

Scientific Session: Rehabilitation and Robotics

Convenors: K. Stibrant Sunnerhagen (*Sweden*)
A. Luft (*Switzerland*)

14:15 **VIRTUAL REALITY AND THERAPY MOTIVATION**

P. Verschure (*Spain*)

14:30 **UPPER LIMB ROBOTICS**

T. Nef (*Switzerland*)

14:45 **NONINVASIVE BRAIN STIMULATION AND MOTOR RECOVERY**

A. Flöel (*Germany*)

15:00 **WILL ROBOTS HELP TO WALK AFTER SEVERE STROKE?**

T. Keller (*Spain*)

15:15 **ROBOTICS AND RANDOMIZED CONTROLLED TRIALS: WHERE IS THE EVIDENCE?**

H. Rodgers (*United Kingdom*)

15:30 **DISCUSSION**



14:15 - 15:45

Hall K3

Scientific Session: New Perspectives on Neurovascular Ultrasound Joint ESO - ESNCH Session

Convenors: N. Bornstein (*Israel*)
E. Azevedo (*Portugal*)

- 14:15 **IS THERE STILL A ROLE FOR NEUROVASCULAR ULTRASOUND IN STROKE?**
P. Schellinger (*Germany*)
- 14:30 **NEUROVASCULAR ULTRASOUND IN THE MANAGEMENT OF CARDIOEMBOLIC STROKE**
C. Baracchini (*Italy*)
- 14:45 **SHOULD MICROEMBOLIC SIGNAL MONITORING BE PERFORMED DURING CAROTID AND CARDIAC SURGERY?**
F. Perren (*Switzerland*)
- 15:00 **PREHOSPITAL TRANSCRANIAL ULTRASOUND: AN IDEAL TOOL TO DETECT LARGE VESSEL OCCLUSION?**
F. Schlachetzki (*Germany*)
- 15:15 **TRANSCRANIAL ULTRASOUND FOR THE DIAGNOSIS AND MANAGEMENT OF VASOSPASM IN SAH**
A. Nacu (*Norway*)
- 15:30 **DISCUSSION**

14:15 - 15:45

Hall J1

Workshop: Simulation Workshop on Stroke Endovascular Treatment Lab (Focused on EV Treatment)

TICKET *Pre-registration required*

Convenor: A. Kemmling (*Germany*)
Demonstrators: P. Papanagiotou (*Germany*)
B. Casolla (*France*)

Teaching Course: Secondary Stroke Prevention

TICKET *Pre-registration required*

Convenors: E. Meseguer (*France*)
H. Milionis (*Greece*)

14:15 **UPDATE ON ANTIPLATELET DRUGS FOR STROKE PREVENTION**

O. Geraghty (*The Netherlands*)

14:35 **STATINS: EZETIMIBE, PCSK-9 ANTAGONISTS: WHO? WHAT? WHEN?**

E. Meseguer (*France*)

14:55 **BLOOD PRESSURE CONTROL: HOW INTENSE?**

H. Milionis (*Greece*)

15:15 **ANTIDIABETICS: A NEW OPTION IN STROKE PREVENTION?**

B. Fuentes (*Spain*)

15:35 **DISCUSSION**

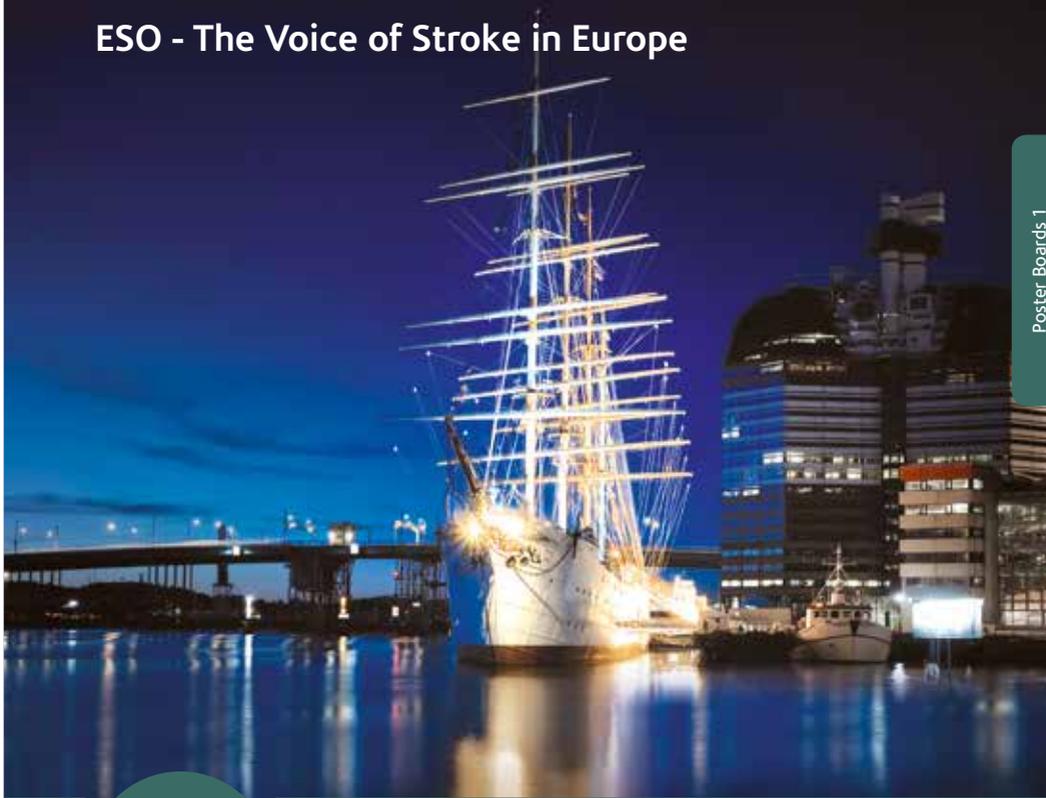


ESOC 2018

4th European Stroke Organisation Conference

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**POSTER BOARDS 1
WEDNESDAY, 16 MAY**

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Poster Boards 1
Wednesday, 16 May

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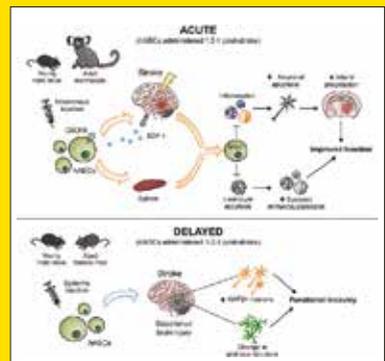
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WEDNESDAY, 16 MAY 2018

08:30 - 19:15

Poster Area

APHASIA, NEGLECT AND OTHER CORTICAL DEFICITS

- 001 **EFFECTS OF TDCS IN MODULATING THE AFTER-EFFECT OF PRISMATIC LENSES TRAINING IN SUBACUTE STROKE PATIENTS WITH NEGLECT**
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- 002 **WHERE DOES THALAMIC APHASIA STEM FROM? ASSOCIATION WITH LEFT ANTERIOR ISCHEMIC LESION**
M. Fritsch, T. Krause, K. Villringer, F. Klostermann, C. Nolte (*Germany*)
- 003 **ACUTE SYMPTOMS OF NEGLECT PREDICT LONG-TERM FUNCTIONAL OUTCOME AFTER LEFT HEMISPHERIC STROKE ESPECIALLY FOR PATIENTS WITH LANGUAGE IMPAIRMENT**
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- 004 **APHASIA DETECTION WITH NIH STROKE SCALE ITEM 9 "BEST LANGUAGE"**
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- 005 **ASSESSING APRAXIA OF SPEECH AFTER STROKE USING THE APRAXIA OF SPEECH RATING SCALE: REPORT FROM A RELIABILITY TRIAL**
H. Hybbinette, P. Ostberg, E. Schalling (*Sweden*)
- 006 **RECOVERY OF LANGUAGE FUNCTION AND PROGNOSTIC FACTORS DURING THE FIRST YEAR AFTER ISCHEMIC STROKE**
Y.H. Kim, K.A. Kim, S.Y. Lee, W.H. Chang, D.Y. Kim, Y.I. Shiin, S.Y.K. Kim, Y.T. Kim (*Republic of Korea*)
- 007 **THEMIS-SV: AUTOMATIC CLASSIFICATION OF LANGUAGE DISORDERS FROM SPEECH SIGNALS**
C. Themistocleous, D. Kokkinakis (*Sweden*)
- 008 **METHODS OF MONITORING FIDELITY IN TRIALS OF COMPLEX BEHAVIOURAL INTERVENTIONS: THE COMPARE FIDELITY PROTOCOL**
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- 009 **SYSTEMATIC ANALYSIS OF AGRAMMATIC ERRORS AND CHARACTERIZATION OF THE LANGUAGE PROFILE IN TURKISH SPEAKING PATIENTS WITH BROCA'S APHASIA**
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- 010 **PREDICTING THE SYMPTOMATIC INTRACEREBRAL HEMORRHAGE RISK AND PROGNOSIS AFTER A THERAPY WITH RT-PA USING SEDAN AND HAT SCORES IN A MONOCENTER STUDY**
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- 011 **FACTORS ASSOCIATED WITH STROKE MISDIAGNOSIS IN THE EMERGENCY DEPARTMENT (ED): A RETROSPECTIVE CASE-CONTROL STUDY**
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- 012 **THE ISRAEL EMS STROKE PRE-NOTIFICATION SMARTPHONE APP A NEW TOOL TO INVESTIGATE PREHOSPITAL TRIAGE ACCURACY**
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- 013 **TRANSCRANIAL DOPPLER WAVEFORM MORPHOLOGY ASSOCIATED WITH LARGE VESSEL OCCLUSION**
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- 017 **HEAD POSITION AFFECTS CEREBRAL AUTOREGULATION IN ISCHAEMIC STROKE**
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- 018 **SURGICAL CEREBRAL REVASCLARIZATION IN ACUTE PERIOD OF ISCHEMIC STROKE (IS)**
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CLINICAL TRIAL RESULTS – ACUTE MANAGEMENT – THROMBOLYSIS OR THROMBECTOMY

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- 023 **SHOULD WE RECANALIZE POSTERIOR CEREBRAL ARTERY OCCLUSIONS? INSIGHTS FROM THE TREVO REGISTRY**
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- 024 **COMBINATION THERAPY OF THROMBECTOMY AND THERAPEUTIC HYPOTHERMIA IN ACUTE ISCHEMIC STROKE – A CASE SERIES**
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- 025 **POINT-OF-CARE COAGULATION TESTING FOR REDUCING IN-HOSPITAL DELAY IN THROMBOLYSIS**
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- 029 **THROMBOLYSIS IN STROKE WITH UNKNOWN ONSET BASED ON NON-CONTRAST CT (TRUST CT). PRELIMINARY RESULTS FROM A MULTICENTER, REGISTRY-BASED STUDY**
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- 031 **RELATIONSHIP OF SYSTOLIC BLOOD PRESSURE DURING 24 HOURS AFTER THROMBOLYSIS TO CLINICAL OUTCOME IN PATIENTS WITH ACUTE ISCHEMIC STROKE**
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- 033 **PRELIMINARY RESULTS ON SAFETY AND EFFICACY OF INTRAVENOUS TIROFIBAN BEFORE ENDOVASCULAR THROMBECTOMY FOR PATIENTS WITH ACUTE ISCHEMIC STROKE CAUSED BY LARGE ARTERY ARTEROSCLEROSIS**
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- 040 **RESTENOSIS AFTER CAROTID ENDARTERECTOMY: COMPARISON OF THREE SURGICAL TECHNIQUES AND USAGE OF INTRAOPERATIVE SHUNT**
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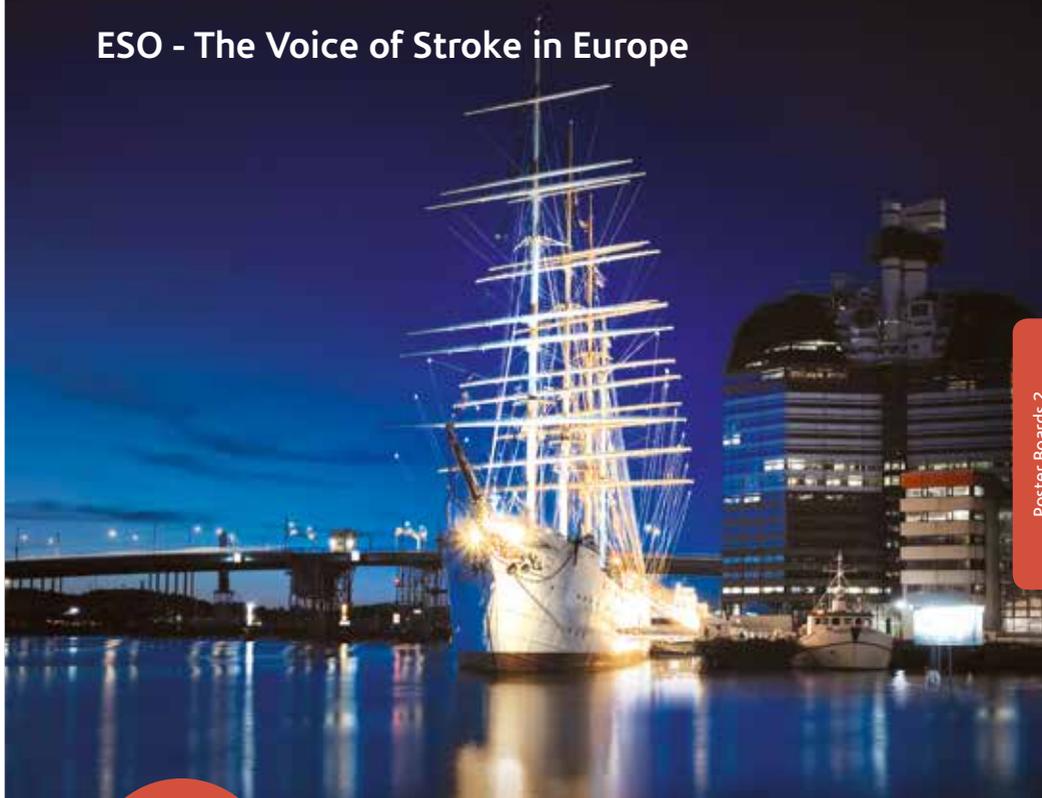


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THURSDAY, 17 MAY 2018

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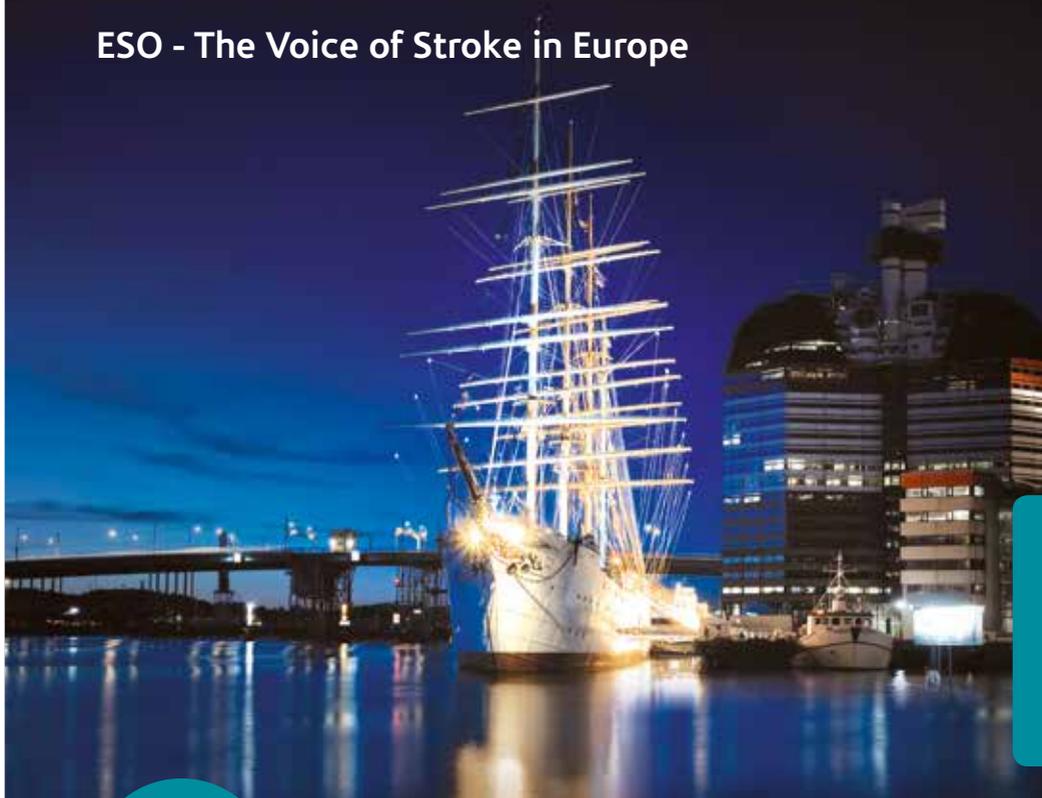
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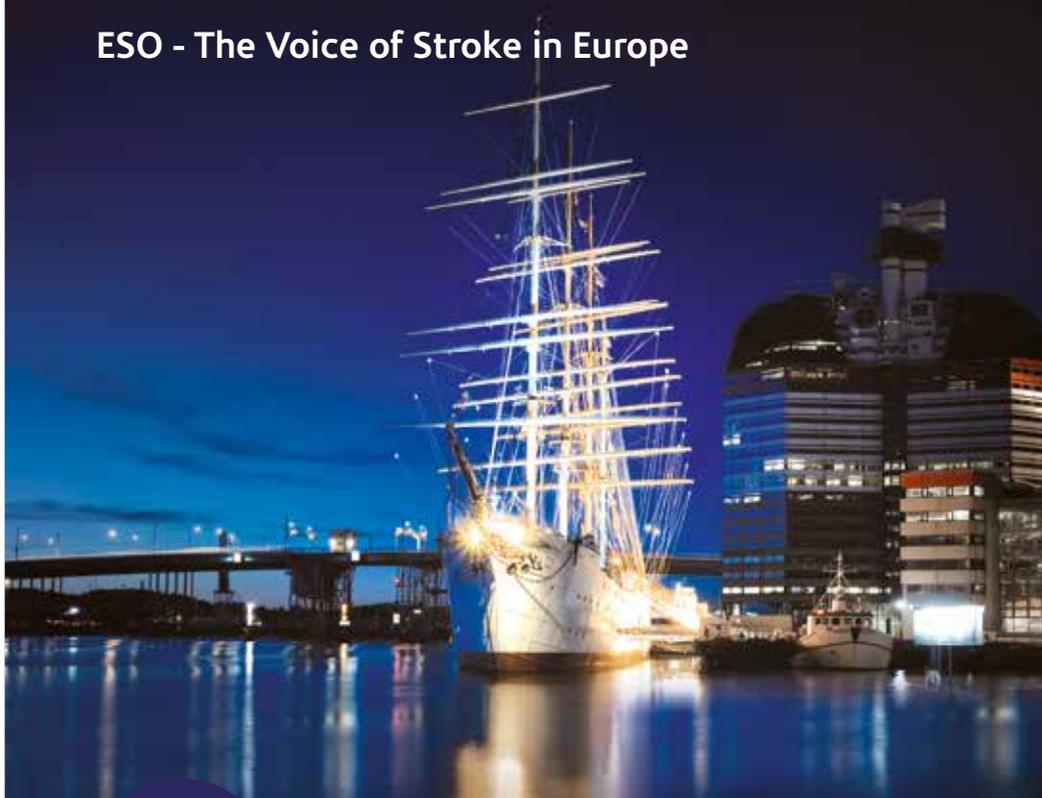
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ESOC 2018

4th European Stroke Organisation Conference

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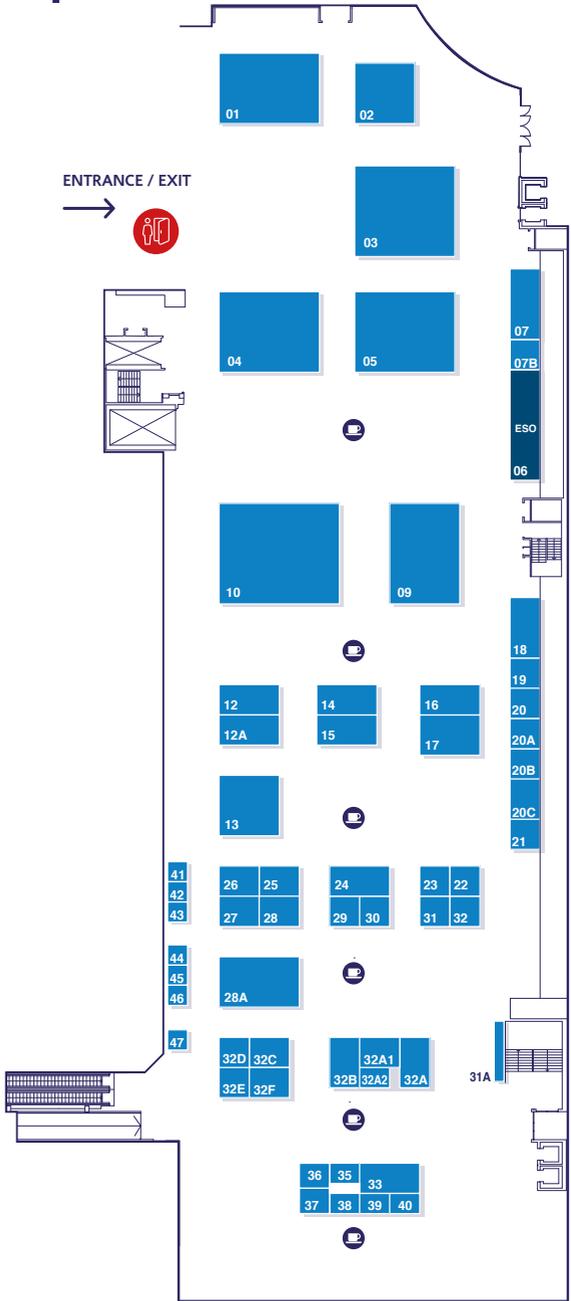


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Industry Supported Sessions

Wednesday, 16 May 2018

Time	Hall K1	Hall K3	Hall H	Hall E1	Hall E4
12:45 - 14:15	Bayer	Shire	Boehringer Ingelheim	Stryker	Abbott

Thursday, 17 May 2018

Time	Hall K2	Hall K1	Hall K3	Hall H	Hall E1
12:45 - 14:15	Angels	Medtronic	BMS Pfizer Alliance	Daiichi Sankyo & MSD	Ever Pharma



WEDNESDAY, 16 MAY 2018

REDEFINING STROKE PREVENTION IN AF AND EVEN BEYOND

SYMPOSIUM IS ORGANISED AND SUPPORTED BY



12:45 - 14:15

Hall K1

Chairs: Mike Sharma (*Canada*)
John Camm (*United Kingdom*)

Opening remarks-Introduction

Mike Sharma (*Canada*)

Optimizing Stroke Prevention in AF Patients with Multiple Morbidities and why Accurate Medication Really Matters

John Camm (*United Kingdom*)

A new Chapter for Stroke Prevention with a NOAC: Vascular Protection

Mike Sharma (*Canada*)

Practical challenges in Secondary Stroke Prevention. Do we need inter-disciplinary collaboration?

Darius Nabavi (*Germany*)

New Insights in Stroke Management

Graeme Hankey (*Australia*)

Discussion and Q&A

All

Closing Remarks

John Camm (*United Kingdom*)

WEDNESDAY, 16 MAY 2018

WHEN TO LOOK FOR A RARE CAUSE OF STROKE

SYMPOSIUM IS ORGANISED AND SUPPORTED BY 

12:45 - 14:15

Hall K3

Chair: Ricardo Reisin (*Argentina*)

Welcome and Introduction to Fabry Disease

Ricardo Reisin (*Argentina*)

Genotype-Phenotype Correlations in Fabry Disease: A Neurologist's View

Tobias Böttcher (*Germany*)

Differential Diagnosis of Fabry Disease: Neuroimaging Perspective

Georgios Tsivgoulis (*Greece*)

Stroke in Fabry Disease: Pathogenesis and Treatment

Ricardo Reisin (*Argentina*)

Q&A and Close

All faculty



WEDNESDAY, 16 MAY 2018

**STROKE PREVENTION AND TREATMENT:
NEW INSIGHTS INTO NOACS AND REVERSAL**

SYMPOSIUM IS ORGANISED AND SUPPORTED BY



12:45 - 14:15

Hall H

Co-Chairs: Stephen Davis (*Australia*)
Hans-Christoph Diener (*Germany*)

Managing Stroke Today: Challenges and Opportunities

Stephen Davis (*Australia*)

Stroke Prevention in AF: How Can We Optimize Anticoagulation?

Q&A

Danilo Toni (*Italy*)

Stroke Treatment: Can Dabigatran Reversal Improve Outcomes?

Q&A

Martin Grond (*Germany*)

Embolic Stroke of Undetermined Source (ESUS): Concept and Current Treatment Options

Q&A

Hans-Christoph Diener (*Germany*)

Closing summary

Stephen Davis (*Australia*) and Hans-Christoph Diener (*Germany*)

WEDNESDAY, 16 MAY 2018

**NOVEL STROKE PROPHYLAXIS STRATEGIES:
WHEN SHOULD CARDIAC OCCLUSION THERAPIES BE CONSIDERED?**

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12:45 - 14:15

Hall E4

Chairs: Per Wester (*Sweden*)
Jeffrey Saver (*USA*)

Introduction and Objectives

Per Wester (*Sweden*)

When is The Heart at The Origin of Ischaemic Strokes?

Jeffrey Saver (*USA*)

Occlusion Procedures Safety and Efficacy: It's Not Open Heart Surgery

Jacob Odenstedt (*Sweden*)

LAA Occlusion: An Alternative Therapy for Reducing the Risk of Stroke in AF Patients

Per Wester (*Sweden*)

Which Patients for PFO Closure: Lessons Learned of The Most Recent Randomized Clinical Trials and Implications for The Heart & Brain Team

Mikael Dellborg (*Sweden*)

Will the New Evidence Change Clinical Decision Making and Guidelines in Neurology?

Christian Gerloff (*Germany*)

Take Home Message

Jeffrey Saver (*USA*)



WEDNESDAY, 16 MAY 2018

MORE PATIENTS, LESS DISABILITY

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12:45 - 14:15

Hall E1

Moderator: Tudor Jovin (*USA*)

The DAWN™ Trial - a New Era

Raul G. Nogueira (*USA*)

The Trevo™ Retriever Registry: From Clinical Commitment to Everyday Practice

Marc Brockman (*Germany*)

Ischemic Stroke Treatment - The Next Frontier

Vincent Costalat (*France*)

THURSDAY, 17 MAY 2018

**MANAGEMENT OF ATRIAL FIBRILLATION, STROKE AND BLEEDING:
EVIDENCE FROM CLINICAL PRACTICE**

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AND



12:45 - 14:15

Hall H

Chair: Raffaele De Caterina (*Italy*)

Welcome and Introduction

Raffaele De Caterina (*Italy*)

Bleeding & Efficacy – Is There a Difference Between the Compounds?

Raffaele De Caterina (*Italy*)

Screening for Atrial Fibrillation to Prevent Strokes – Where Are We Now?

Marten Rosenqvist (*Sweden*)

NOAC-Related Intracranial Hemorrhage – Risk, Clinical Presentation and Predictors

Hanne Christensen (*Denmark*)

Oral Anticoagulants: What Did We Learn in Clinical Practice?

Jan Steffel (*Switzerland*)

NOACs: Can the Effect Be Reversed in Acute Situations?

Hans-Christoph Diener (*Germany*)

Faculty Round Table and Q&A



THURSDAY, 17 MAY 2018

**NEW EVIDENCE FOR MULTI-MODAL TREATMENT CONCEPTS IN
POST-STROKE RECOVERY**

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12:45 - 14:15

Hall E1

Chair: Wolf-Dieter Heiss (*Germany*)

Neuroprotection and Neurorepair after Stroke: Example Cerebrolysin

Michael Brainin (*Austria*)

Noninvasive Brain Stimulation & multi-modal treatment concepts

Andreas Winkler (*Austria*)

**Anticorrelated processes in neurobiology - possible consequences for
neurorehabilitation strategies**

Dafin Muresanu (*Romania*)

New evidence from a recent meta-analysis in acute ischemic Stroke

Natan Bornstein (*Israel*)

THURSDAY, 17 MAY 2018

EXPERIENCE FROM TODAY FOR THE STROKE CARE OF THE FUTURE

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12:45 - 14:15

Hall K2

Chair: Georgios Tsvigoulis (*Greece*)

Clinical updates on acute ischaemic stroke reperfusion strategies

Götz Thomalla (*Germany*) and Peter Ringleb (*Germany*)

Strategic planning of stroke unit coverage and quality improvement, the Austrian experience

Julia Ferrari (*Austria*)

Quality monitoring to improve acute stroke care on a national level, the Czech experience

Ales Tomek (*Czech Republic*)

Creating the link between stroke ready hospitals and emergency medical services, the Slovakian experience

Matej Polak (*Slovakia*)

Simulation training to optimise stroke care, experience from the ESO simulation committee

Paola Santalucia (*Italy*)



THURSDAY, 17 MAY 2018

THE PATIENT JOURNEY THROUGH STROKE: FOCUS ON PREVENTION OF AF-RELATED STROKE

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12:45 - 14:15

Hall K3

Chair: Arne Lindgren (*Sweden*)

The Stroke Patient Journey: Does It Only Begin in The Emergency Room?

Arne Lindgren (*Sweden*)

Evolving Practical Management of Acute Ischemic Stroke

Didier Leys (*France*)

AF Detection After a Stroke – When and How Intensive?

Roland Veltkamp (*United Kingdom*)

Roadmap of Stroke Prevention – Role of The Noacs in Improving Patient Outcomes

Stefan Hohnloser (*Germany*) and Arne Lindgren (*Sweden*)

Road Ahead – What Have We Learnt? What More is There to Do?

Arne Lindgren (*Sweden*)

Q&A

All

THURSDAY, 17 MAY 2018

MEDTRONIC CARE CONTINUUM: PATIENT PATHWAY

SYMPOSIUM IS ORGANISED AND SUPPORTED BY



12:45 - 14:15

Hall K1

Moderator: Antonio Dávalos (*Spain*)

RAPID: Advanced Imaging in Patient Selection for Mechanical Thrombectomy

Greg Albers (*USA*)

Atrial Fibrillation in Stroke Patients: Are You Looking Long Enough?

Martin Köhrmann (*Germany*)

ITB Therapy for Post Stroke Spasticity - New Evidence for an Unmet Need

Geoffrey Cloud (*Australia*)

Panel Discussion



EBAC Accredited Educational Programme



This programme is accredited by the European Board for Accreditation in Cardiology (EBAC) for 1 hour of external CME credit; Each participant should claim only those hours of credit that have actually been spent in the educational activity.

The European Stroke Organisation (ESO) has independently organised all matters related to the Embolic Stroke of Undetermined Source (ESUS) 90-minute Programme, including content and presenters.

FRIDAY, 18 MAY 2018

12:30 - 14:00

Hall K3

Educational Symposium on ESUS-EBAC Accredited Educational Programme

Convenors: M. Rubiera (*Spain*)
A. Tsiskaridze (*Georgia*)

12:30 THE ESUS CONCEPT: BACKGROUND AND DIAGNOSTIC CRITERIA

M. Rubiera (*Spain*)

12:50 WHY DID NAVIGATE ESUS FAIL?

P.A. Ringleb (*Germany*)

13:10 WHAT DO WE DO IF RESPECT ESUS IS POSITIVE?

A. Meretoja (*Finland*)

13:30 SHOULD WE DROP THE ESUS CONCEPT?

M. Köhrmann (*Germany*)

13:50 DISCUSSION

Supported by an unrestricted educational grant from Boehringer Ingelheim International GmbH.



In compliance with EBAC guidelines, all speakers / chairpersons participating in this programme have disclosed or indicated potential conflicts of interest which might cause a bias in the presentations. The Organizing Committee / Course Director is responsible for ensuring that all potential conflicts of interest relevant to the event are declared to the audience prior to the CME activities.

Exhibitor & Supporter Company Profiles

Abbott

Culliganlaan 2b

Diegem

1831

Belgium

Booth #: 28

www.abbott.com



At Abbott, we're committed to helping people live their best possible life through the power of health. For more than 125 years, we've brought new products and technologies to the world - in nutrition, diagnostics, medical devices and branded generic pharmaceuticals - that create more possibilities for more people at all stages of life. Today, 94,000 of us are working to help people live not just longer, but better, in the more than 150 countries we serve.

Allergan Norden AB

Strandbergsgatan 61

Stockholm

112 51

Sweden

Booth #: 25

www.allergan.com



Allergan plc is a global pharmaceutical company and a leader in Growth Pharma with a rich brand portfolio delivering treatments that address significant unmet medical needs in key therapeutic categories including: Dermatology and Aesthetics; Central Nervous System; Eyecare; Urology; Gastroenterology; and Cardiovascular disease and Infectious disease. Allergan values partnerships and shared insights that enable the organisation to develop new treatments for patient needs. Allergan is committed to working with physicians and researchers worldwide to provide therapeutic and medical aesthetic advancements that can help patients live their lives to their full potential. For more information, visit Allergan's website at www.Allergan.com.



**American Heart Association/
American Stroke Association**

7272 Greenville Avenue
Dallas
75231
USA

Booth #: 23

professional.heart.org



The American Heart Association/American Stroke Association – building healthier lives, free of cardiovascular diseases and stroke. Learn more about the AHA/ASA, its programs and one of its journals – Stroke. Stroke is a top-ranked journal in its field and publishes articles focused on clinical and basic investigation of any aspect of the cerebral circulation and its diseases from many disciplines (neurology, neuropathology, neurosurgery, vascular surgery, rehabilitation, critical care medicine, vascular physiology, radiology, nursing). Visit *professional.heart.org* or *stroke.ahajournals.org*. “Like” our Facebook page (Stroke-AHA/ ASA) or follow us on Twitter (@StrokeAHA_ASA). Review the latest journal metrics at *www.ahajournals.org/content/metrics*.

Amgen

Dammstrasse 23
Zug
6300
Switzerland

Booth #: 02

www.amgen.com



Amgen is one of the world’s leading biotechnology companies. Amgen is a values-based company, deeply rooted in science and innovation to transform new ideas and discoveries into medicines for patients with serious illnesses. At Amgen, our mission is to serve patients. We dedicate our days to turning the tide on serious, life-interrupting illnesses - pushing the boundaries of science to transform medicine. Amgen strives to serve patients by transforming the promise of science and biotechnology into therapies that have the power to restore health or save lives. In everything we do, we aim to fulfill our mission to serve patients.

Angels Initiative

Binger Str. 173
Ingelheim
55216
Germany

Booth #: 05

angels-initiative.com



Angels Europe initiative is a non-promotional, pan-European Boehringer Ingelheim health care project, with the purpose to support the ESO (European Stroke Organisation) in achieving their goal: to improve the stroke care in Europe by implementing the ESO guidelines. The Angels Initiative is supported by Medtronic.

apoplex medical technologies GmbH

Delaware Avenue 1-3
Pirmasens
66953
Germany

Booth #: 19

www.apoplexmedical.com



The company focuses its activities on the development of applications for the prevention of stroke caused by atrial fibrillation by an improved detection of paroxysmal atrial fibrillation. Several applications are already in use at medical practices and clinics, especially stroke units. The core of the product SRA is a fully automated detection of atrial fibrillation episodes and the identification of patients with an increased risk for paroxysmal atrial fibrillation with the help of a mathematical algorithm. The superiority of this method has been proven by clinical studies. The applications are web based and are easy and reliably integrated.

BALT

10 rue de la Croix Vigneron
Montmorency
95160
France

Booth #: 26

www.balt.fr



We will be the Interventional neuroradiology Trusted partner physicians want to work with, by delivering only the best & breakthrough solutions in the endovascular treatment of neurovascular diseases worldwide.



Bayer AG

Müllerstraße 178
Berlin
13353
Germany

Booth #: 03

www.bayer.com



Bayer: Science For A Better Life Bayer is a global enterprise with core competencies in the Life Science fields of health care and agriculture. Its products and services are designed to benefit people and improve their quality of life. For more information, go to www.bayer.com

Biogen

225 Binney St.
Cambridge
02142
USA

Booth #: 32C

www.biogen.com



One of the pioneers in biotechnology, Biogen today has the leading portfolio of medicines to treat multiple sclerosis (MS), has the first and only approved treatment for spinal muscular atrophy (SMA) and is at the forefront of research into new medicines for neurological and neurodegenerative conditions. Led by world-class research and development, Biogen uses novel science and leading-edge technologies to create, commercialize and manufacture transformative therapies for patients with few or no treatment options.

Bittium

Ritaharjuntie 1
Oulu
90590
Finland

Booth #: 20

www.bittium.com



Bittium offers healthcare technology products and solutions in biosignal measuring in the areas of cardiology, neurology, rehabilitation, occupational health and sports medicine. Combining healthcare technologies with Bittium's long-term experience and competence in wireless and security technologies gives Bittium good conditions to serve its customers in healthcare sector by offering them new kinds of products and services. Bittium Faros™ is a versatile ECG device used for early detection of cardiac abnormalities in everyday life. Ultra-small and lightweight Bittium Faros enables precise long-term full disclosure ECG measurements for long-term Holtering, cardiac event monitoring, mobile cardiac telemetry and assessing autonomic nervous system functions.

BMS Pfizer Alliance

Walton Oaks, Dorking Road,
Walton on the Hill
Tadworth
KT20 7NS
UK

Booth #: 01

www.pfizer.com



In 2007, Pfizer and Bristol-Myers Squibb entered into a worldwide collaboration to develop and commercialize apixaban, an oral anticoagulant discovered by Bristol-Myers Squibb. This global alliance combines Bristol-Myers Squibb's long-standing strengths in cardiovascular drug development and commercialization with Pfizer's global scale and expertise in this field.



Boehringer Ingelheim

Binger Str. 173
Ingelheim
55216
Germany

Booth #: 04

www.boehringer-ingelheim.com



Boehringer Ingelheim is one of the world's 20 leading pharmaceutical companies. Boehringer Ingelheim led the way in stroke care by developing the only licensed blood clot dissolving treatment (thrombolytic) for acute ischaemic stroke therapy. The company also initiated the angels initiative: a programme that helps doctors to set up and optimise acute stroke networks with the support of local and international stroke societies. Boehringer Ingelheim was the first company to bring a non- Vitamin K oral anticoagulant to the market and has recently introduced the first specific reversal agent for an anticoagulant treatment. Visit www.boehringer-ingelheim.com for more information.

Brainomix

Suites 11-14 Suffolk House 263 Banbury Road
Oxford
OX2 7HN
UK

Booth #: 07

www.brainomix.com



Brainomix's vision is to become a world leader in imaging software to support clinical decision making, for neurological and cerebrovascular diseases. An expert team of clinicians, stroke neurologists, scientists, business professionals and engineers, has a collective wealth of experience that makes Brainomix ideally positioned to serve the clinical community. Brainomix has developed the CE-marked, award-winning stroke imaging software, e-ASPECTS. Its product supports stroke physicians in fast, consistent diagnosis for ischemic stroke by automatically implementing the validated clinical scoring methodology, Alberta Stroke Programme Early CT Score (ASPECTS).

Cardinal Health

Lindenstrasse 10
Baar
6340
Switzerland
Booth #: 32F

www.cardinalhealth.com



Cardinal Health Inc. is a global, integrated healthcare services and products company, providing customized solutions for hospital systems, pharmacies, ambulatory surgery centers, clinical laboratories and physician offices worldwide. The company provides clinically-proven medical products and pharmaceuticals and cost-effective solutions that enhance supply chain efficiency. Cardinal Health connects patients, providers, payers, pharmacists and manufacturers for integrated care coordination and better patient management. With the acquisition of Medtronic's Patient Care, Deep Vein Thrombosis and Nutritional Insufficiency business the company will have approximately 50,000 employees in nearly 60 countries. Cardinal Health ranks among the top 15 on the Fortune 500.

cereneo Schweiz AG

Seestrasse 18
Vitznau
6354
Switzerland
Booth #: 27

www.cereneo.ch/en



cereneo is a Swiss research facility and clinic specialised in neurorehabilitation. Personal therapy and modern training and measurement processes are combined to create a customised therapy concept, in order to give you back a high level of independence, freedom to organise your daily life and a high quality of life.



CERENOVUS

Leonardo Da Vincilaan 15
Diegem
1831
Belgium
Booth #: 32A1

www.depuyssynthes.com



Meet the new face of neurovascular care within Johnson & Johnson Medical Devices. The Codman Neurovascular business, including the recent acquisitions of Pulsar Vascular Inc., and Neuravi Limited, will be known as CERENOVUS. CERENOVUS has a bold vision to change the trajectory of stroke. Our promise to our customers is to continue pushing the boundaries of what's possible in stroke care, so that stroke is no longer a life sentence for patients.

Czech Stroke Society

K Rybníčku 1180
Mníšek pod Brdy
252 10
Czech Republic
Booth #: 41

www.cmp.cz



Czech Stroke Society was founded as a part of Czech Neurological Society in 2002. We are a professional organization with more than 350 members. Our mission is to spread the knowledge of the most modern stroke treatments through providing professional and public education. We provide stroke treatment guidelines to the healthcare professionals. We educate lawmakers, policymakers and the public as we advocate for changes to protect our communities from the burden of stroke. Our society helped to the Czech Ministry of Health to design the stroke treatment network, which was launched in 2011.

Daiichi Sankyo Europe GmbH

Zielstattstrasse 48
Munich
81379
Germany

www.daiichi-sankyo.eu



Daiichi Sankyo is a global pharmaceutical company based in Japan that has a presence in more than 20 countries around the world. With a rich legacy of over 100 years of scientific expertise, we are the pioneer behind leading pharmaceuticals that have contributed to the improvement of countless lives. Building on our experience of innovation in the areas of cardiovascular diseases and bacterial infections, Daiichi Sankyo is expanding into other important therapeutic areas where significant unmet medical needs remain, such as the development of medicines for blood clot and stroke prevention, cancer treatments, and medicines for diabetes and related conditions.

Deutsche Schlaganfall-Gesellschaft (German Stroke Society)

Reinhardstr. 27c
Berlin
D-10117
Germany

Booth #: 42

dsg-info.de



The German Stroke Society, founded in 2001 by the German Society of Neurology, promotes research, teaching and training (stroke summer school for medical doctors and nursing staff) for prevention, diagnosis, treatment and epidemiology of stroke (ischemic stroke, ICB and SAH). The society has established a system of certification with, at present, more than 300 certified stroke units covering Germany almost completely. 2 levels of certified stroke units are differentiated: regional stroke units with neurology, ultrasound, CT or MRI, physiotherapy, occupational, speech and swallowing therapy and stroke centers with neurosurgery and interventional neuroradiology (mechanical thrombectomy) in addition.

Recognition,
Acknowledgements
& Industry Support



European Society for Swallowing Disorders

Carrer Major de Can Caralleu 1-7
Barcelona
08017
Spain
Booth #: 39



www.myessd.org

The European Society for Swallowing Disorders, ESSD, is an association of health care providers working, doing research and studying in the field of dysphagia and swallowing disorders. The ESSD provides a website, www.myessd.org, with information about the society, past and future congresses, calendar of events, and resources and links; members have access to Dysphagia Journal; ESSD organizes an annual congress, a postgraduate diploma in swallowing disorders, workshops, FEES and VFS Accreditation and online webinars; and encourages networking with other individuals and societies in the field. The congress and journal give members the opportunity to present and publish their research.

EVER Neuro Pharma GmbH

Oberburgau 3
Unterach
4866
Austria
Booth #: 14



www.everpharma.com

We are a globally successful pharmaceutical specialist. At our headquarters in Unterach, Austria, we are always on the search for new therapeutic solutions aimed at improving both the patients' well-being and quality of life. Cerebrolysin® is a biotechnologically manufactured original neuropeptide solution that stimulates neurotrophic regulation in the central nervous system. It is indicated for the treatment of stroke, traumatic brain injuries and cognitive impairment/dementia. Tachyben is used for intravenous treatment of hypertensive emergencies. It is used to control lowering of blood pressure in hypertensive patients during and/or after surgery in cases of severe forms of hypertensive disease.

GE Healthcare

GE Healthcare, Pollards Wood, Nightingales Lane
Buckinghamshire
HP8 4SP
UK



Booth #: 17

www.gehealthcare.com

GE Healthcare are pleased to welcome delegates to this year's European Stroke Organisation Conference. Come and visit us on booth #17 for our latest innovations. Harnessing data and analytics across hardware, software and biotech, GE Healthcare is the \$19 billion healthcare business of GE (NYSE: GE). As a leading provider of medical imaging equipment, with a track record of more than 100 years in the industry and more than 50,000 employees across 100 countries, we transform healthcare by delivering better outcomes for providers and patients. Follow us on Facebook, LinkedIn, Twitter and The Pulse for latest news.

iRhythm Technologies

1 Farnham Road
Guildford
GU2 4RG
UK



Booth #: 20A

www.irhythmtech.com

iRhythm is a leading digital health care company redefining the way cardiac arrhythmias are clinically diagnosed. The company combines wearable biosensor devices worn for up to 14 days and cloud-based data analytics with powerful proprietary algorithms that distill data from millions of heartbeats into clinically actionable information. The company believes improvements in arrhythmia detection and characterization have the potential to change clinical management of patients.



Irish Heart Foundation

14-17 Lower Rathmines Road
Dublin
Dublin 6
Ireland

Booth #: 43

irishheart.ie



The Irish Heart Foundation is Ireland's national charity fighting heart disease, stroke and blood vessel disease. We educate and train people to save lives, provide support to stroke and heart disease sufferers, promote positive health strategies, fund research and provide vital public information. We also campaign for policy changes that reduce premature death and disability from cardiovascular disease and advocate for better patient treatment and services.

iSchemaView

201 Marshall St. Suite 101
Redwood City
94063
USA

Booth #: 24

www.iRAPID.com

The logo for RAPID, consisting of the word "RAPID" in white, uppercase, sans-serif font, centered within a solid red rectangular background.

RAPID

RAPID is an automated multi-modality imaging platform that provides maps of cerebral blood flow which aid physicians in determining whether brain tissue is likely to be irreversibly injured or potentially still salvageable. RAPID has been validated in the most successful early and late window stroke trials including SWIFT PRIME, EXTEND IA, DAWN and DEFUSE 3. These landmark trials will substantially increase the number of patients who can be successfully treated up to 24 hours after symptom onset. In the European Union, an additional RAPID module is also available that provides automated ASPECT scores. RAPID: redefining stroke care worldwide.

Lepu Medical Technology (Beijing) Co., Ltd

No37 Chaoqian Road, Changping Dist, Beijing, China
Beijing
102200
China

Booth #: 21

en.lepumedical.com



Lepu Medical Technology (Beijing) Co., Ltd. was established in 1999. Lepu Medical is specialized in developing, manufacturing and distributing the high-tech medical devices and equipment. Today, Lepu Medical has grown into a global leading group company in the fields of cardiovascular, neurovascular and peripheral vascular interventions, structural heart diseases, surgical cardiology, cardiac rhythm management, anesthesia and intensive care, in vitro diagnostics and general surgery with products include coronary stents, dilatation balloon catheters, interventional accessories, occlusion devices, mechanical heart valves, electrophysiology catheters, pacemakers, cardiac in vitro diagnosis products, anesthetic products, angiography systems and surgical staplers.

Medtronic International Trading Sarl

Route de Molliau 31
Tolochenaz
1131
Switzerland

Booth #: 10

europa.medtronic.com



As a global leader in medical technology, services and solutions, Medtronic improves the lives and health of millions of people each year. We use our deep clinical, therapeutic and economic expertise to address the complex challenges faced by healthcare systems today. Let's take healthcare Further, Together. Learn more at Medtronic.com



MEYTEC GmbH Medizinsysteme

Akazienstr. 13
Werneuchen OT Seefeld
16356
Germany

Booth #: 16

www.meytec.de



MEYTEC GmbH Medizinsysteme is a specialist tele-healthcare company, producing telemedical solutions under the VIMED® brand for clinical establishments around the world. MEYTEC has developed pioneering bespoke solutions, using the digital transmission of medical data and images. MEYTEC's state-of-the-art products offer secure, real-time, face-to-face contact between medical experts and patients via audio-video communication situated in remote locations. Pioneering projects such as TEMPiS (Bavaria), STEM0 (Berlin) and VST (Australia) are testament to the evolution of MEYTEC's products, through the better understanding of, and in response to, the ever increasing impact of stroke on the world's population.

MindMaze

Chemin de Roseneck 5
Lausanne
1006
Switzerland

Booth #: 12

www.mindmaze.com



MindMaze has developed a breakthrough computing platform for intuitive human-machine interfaces using the power of neuroscience, artificial intelligence and mixed reality. The MindMotion™ platform provides motivating gamified activities built on evidence-based neurorehabilitation principles, designed to increase rehab dose and intensity early post neurological insult. The MindMotion PRO is approved by the FDA and helps to increase the rehabilitation dose cost-effectively. The MindMotion GO is a portable solution to engage patients in continuing therapy as they transition from hospital to home. Our products are CE marked and have been used by hundreds of patients across Europe and the US.

Moleac Pte Ltd

Helios #09-08, 11 Biopolis Way
Singapore
138667
Singapore
Booth #: 18

www.moleac.com



Founded in 2003, Moleac is dedicated to developing innovative and high quality therapeutics in Neurology to supplement existing treatments for conditions where significant unmet needs remain. Its flagship product, NurAiD™II is a neurorestorative product that safely enhances recovery among patients who suffered a stroke or other brain injuries in the post-acute phase by amplifying the brain's repair processes. NurAiD™II is a natural product made of several plant extracts selected for their pharmacological effects, clinical efficacy and safety. The product is distributed in over 30 countries today and aims to be available to the greatest number of people in need.

MSD International GmbH

Weystrasse 20
Luzern
6006
Switzerland

www.msd.com



For more than a century, MSD has been inventing for life, bringing forward medicines and vaccines for many of the world's most challenging diseases. MSD is a trade name of Merck & Co., Inc., with headquarters in Kenilworth, N.J., U.S.A. Today, MSD continues to be at the forefront of research to deliver innovative health solutions and advance the prevention and treatment of diseases that threaten people and animals around the world. For more information, visit www.msd.com and connect with us on Twitter, LinkedIn and YouTube.



Nestlé Health Science SA

Route de la Corniche 3 - Bâtiment SE-A
Epalinges
1066
Switzerland

Booth #: 20B

www.nestlehealthscience.com



Nestlé Health Science, a wholly-owned subsidiary of Nestlé, is a health-science company engaged in advancing the role of nutritional therapy to change the course of health for consumers, patients and our partners in healthcare. Its portfolio of nutrition solutions, diagnostics, devices and drugs, targets a number of health areas, such as inborn errors of metabolism, pediatric and acute care, obesity care, healthy ageing, and gastrointestinal and brain health. Through investing in innovation and leveraging leading edge science, we bring forward innovative nutritional therapies with proven clinical, health economic value and quality of life benefits.

NeuroNews

BIBA Medical Ltd, 526 Fulham Road
London
SW6 5NR
UK

Booth #: 40

www.neuronewsinternational.com



NeuroNews is a specialised, quarterly, newspaper dedicated to neurointerventionists. It contains the latest news, opinion from thought leaders, summaries of cutting-edge research, expert analysis, conference coverage and updates on the latest products in the neurointerventional world. Website: www.neuronewsinternational.com Target readership: Interventional neuroradiologists, interventional neurologists, neurologists and neurosurgeons. Print circulation: Over 8,000 experts by post in North America and Europe E-newsletter: Distributed to over 6,500 experts worldwide. For subscription: www.neuronewsinternational.com/register Editor-in-chief: Prof Philip M Meyers

Nico.lab

Paasheuvelweg 25
Amsterdam
1105 BP
The Netherlands
Booth #: 32B
www.nico-lab.com



Decrease of door-to-groin time enhances the chance of achieving a functional independence after stroke. Nico.lab, a spin-off by the AMC Amsterdam, offers a fully-automated, high-speed service, for quantification and visualization of all stroke-relevant imaging parameters. Using a high-speed cloud-model, artificial intelligence algorithms and fast web-based image viewing, this service is aimed at precision diagnosis support, speed-of-care and telemedicine.

Nihon Kohden Europe GmbH

Raiffeisenstr. 10
Rosbach
61191
Germany
Booth #: 15
eu.nihonkohden.com



Since Nihon Kohden foundation in 1951, our mission is to improve the quality of life with advanced technology. As a leading manufacturer of medical electronic equipment, Nihon Kohden provided a number of state of the art medical electronic equipment for clinical practice in the world. We are expanding our activities into emergency care, home care and health promotion. With the time, the structure of diseases in the society has changed. We respond to such changes and contribute to the world by Improving Healthcare with Advanced Technology.



Olea Medical

93 Avenue des Sorbiers, ZI Athelia IV
La Ciotat
13600
France

Booth #: 28A

www.olea-medical.com



Olea Medical®, a provider of advanced MR and CT imaging post-processing, designs and markets a suite of innovative medical imaging applications, Olea Sphere®, significantly improving diagnostic process and follow-up assessment. The company has established a strong credibility, through the domestication of cutting-edge technology, and partnerships with leading institutions worldwide. Covering both morphologic and functional imaging, Olea Medical® post-processing solutions bring complex mathematics into clinical practice for easy access to accurate and robust biomarkers allowing enhanced diagnostic confidence and response-to-treatment assessment. Today Olea Medical® is the recognized leader in standardized, vendor-neutral, advanced MR quantitative and qualitative image post-processing.

Penumbra Inc.

Am Borsigturm 44
Berlin
13507
Germany

Booth #: 09

www.penumbrainc.com



Penumbra, Inc., headquartered in Alameda, California, is a global healthcare company focused on interventional therapies. Penumbra designs, develops, manufactures and markets innovative devices and has a broad portfolio of products that addresses challenging medical conditions and significant clinical needs across two major markets, neuro and peripheral vascular. Penumbra sells its products to hospitals primarily through its direct sales organization in the United States, most of Europe, Canada and Australia, and through distributors in select international markets. The Penumbra logo is a trademark of Penumbra, Inc.

Phagenesis Limited

Unit 18 Enterprise House, Pencroft Way, MSP
Manchester
M15 6SE
UK

Booth #: 20C

www.phagenesis.com



Phagenesis Ltd is committed to transforming the lives of people with dysphagia, using revolutionary treatments developed through a commitment to scientific and clinical excellence. The first product launched is Phagenyx®. Phagenyx® provides an evidence based innovative treatment for post-stroke dysphagia that uses Pharyngeal Electrical Stimulation (PES) to restore neurological control and in turn improve the swallow function. Phagenyx® is designed to treat the cause of dysphagia, thereby reducing the risk of complications and associated costs and improving outcomes. The treatment is based on over 20 years of research and development.

phenox GmbH

Lise-Meitner-Allee 31
Bochum
44801
Germany

Booth #: 32A2

www.phenox.net



Since its founding in 2005, phenox has been dedicated to developing innovative, breakthrough and clinically proven technologies and solutions for the treatment of neurovascular diseases. phenox's products are used by endovascular specialists to treat ischemic and hemorrhagic stroke. The product range includes the pRESET Thrombectomy Device, the p64 Flow Modulation Device, the pCONUS Bifurcation Aneurysm Implant and the pITA RX Neurovascular PTA Balloon Catheter and the PORTAL Guidewire. Learn more at www.phenox.net



Portuguese Stroke Society

Rua de Cervantes 388-398
 Porto
 4050-186
 Portugal
Booth #: 44

www.spavc.org



SPAVC - Portuguese Stroke society is a non-profit organization dedicated to improve prevention, reduce mortality, morbidity and handicap due to stroke as well as to promote research and education, through the creation of action and support plans, identifying the most effective intervention levels, thus contributing to health improvement in Portugal. It was created in 2005, March 8th, by a group of former members of the Portuguese Society of Neurology Stroke Study Group. Along with the neurologists, other medical specialties and other groups of health professionals are members of the Portuguese Stroke society.

PRECIOUS

University Medical Center Utrecht, Heidelberglaan 100
 Utrecht
 3584 CX
 The Netherlands
Booth #: 29

www.precious-trial.eu



PRECIOUS – PREvention of Complications to Improve OUTcome in elderly patients with acute Stroke The EU-funded project PRECIOUS (grant agreement No 634809) seeks to find out whether a pharmacological strategy to prevent complications after stroke can reduce the risk of death or long-term disability. PRECIOUS will recruit 3800 elderly patients in 80 hospitals to the study. Patients aged 66 years or older will be randomised to a strategy to prevent complications in the first four days of their hospitalisation, or to standard care.

SAGE Publishing

1 Oliver's Yard
London
EC1Y 1SP
UK

Booth #: 36

www.sagepublishing.com



Sara Miller McCune founded SAGE Publishing in 1965 to support the dissemination of usable knowledge and educate a global community. SAGE publishes more than 1,000 journals and over 800 new books each year, spanning a wide range of subject areas. Our growing selection of library products includes archives, data, case studies and video. SAGE remains majority owned by our founder and after her lifetime will become owned by a charitable trust that secures the company's continued independence. Principal offices are located in Los Angeles, London, New Delhi, Singapore, Washington DC and Melbourne. www.sagepublishing.com

Samsung

14 Electronics Ave
Danvers
01923
USA

Booth #: 32A

www.samsunghealthcare.com



NeuroLogica, the healthcare subsidiary of Samsung Electronics, develops and manufactures innovative imaging technologies and is committed to delivering fast, easy, and accurate diagnostic solutions to healthcare providers. We are the global headquarters and manufacturer of computed tomography (CT). Our advanced medical technologies are used worldwide in leading healthcare institutions, helping providers enhance patient care, improve patient satisfaction and increase workflow efficiency.



Shire International GmbH

Zählerweg 10

Zug

6300

Switzerland

www.shire.com

Shire is the global leader in serving patients with rare diseases. We strive to develop best-in-class therapies across a core of rare disease areas including hematology, immunology, genetic diseases, neuroscience, and internal medicine with growing therapeutic areas in ophthalmics and oncology. Our diversified capabilities enable us to reach patients in more than 100 countries who are struggling to live their lives to the fullest. We feel a strong sense of urgency to address unmet medical needs and work tirelessly to improve people's lives with medicines that have a meaningful impact on patients and all who support them on their journey.

SITS Internationalc/o Karolinska University Hospital -
Solna, Department of Neurology R2:03

Stockholm

17176

Sweden

Booth #: 07Bwww.sitsinternational.org

SITS - Safe Implementation of Treatments in Stroke, is a non-profit, research-driven, independent, international collaboration. It's an initiative by the medical profession to assure excellence in acute treatment and secondary prevention of stroke, as well as to facilitate clinical trials. Today, over 170 000 patient files are included from over 70 countries on five continents, which makes SITS a world-leading stroke network. More than 50 scientific reports have been published in international peer-reviewed journals based on data from SITS.

SLICE

19 ALLEES JEAN JAURES
TOULOUSE
31500
France

Booth #: 37

www.slice-online.com



The SLICE meeting aims to provide a 3 days multidisciplinary international meeting exclusively focused on stroke management including Neurologists, Anesthesiologists, Neuroradiologists, Emergency physicians and Paramedics. The main goal is to promote “team experience” and “international team exchange” in order to offer a unique occasion to create a multidisciplinary high level scientific debate focus on stroke management at the acute phase. The thematic sessions will be organized around recorded cases captured in live condition in several Stroke Units worldwide. IN EXTREMIS trial: Exploration of the limits of Thrombectomy procedures indication in a Single Action.

**SPANISH SOCIETY OF NEUROLOGY (SEN) –
STROKE STUDY GROUP (GEECV)**

Calle Fuerteventura, 4, Bajos - Oficina 4
San Sebastián de los Reyes, MADRID
E-28703
Spain

Booth #: 45

www.ictussen.org



The Stroke Study Group is part of the Spanish Society of Neurology (SEN), a non-profit scientific organisation founded in 1949 which is active throughout Spain. With a membership of over 3,000, the SEN’s principal objectives are to promote and to foster progress in the field of neurology as well as to represent Spanish neurology on the international stage. The Stroke Study Group, which brings together SEN members interested in cerebrovascular diseases, currently has 606 members and aims to improve the care provided to these patients through research, continuing medical education, and the dissemination of information among patients and general population.



STROK@LLIANCE - ETAP Lab

2 rue des Rochambelles
Caen Cedex
14032
France

www.strokalliance.com



STROK@LLIANCE is an independent Contract Research Organization (CRO) providing preclinical pharmacology and research services, as well as scientific expertise to support drug and nutraceutical R&D for our sponsors. Strok@lliance is a subordinate entity of ETAP-Lab 100% dedicated to preclinical stroke studies. We are committed to provide the best of academic and private expertise within a single service. We manage projects ensuring that both expertise and creativity are brought into play in providing high-level animal studies in a quality-controlled environment. STROK@LLIANCE accesses state-of-the-art technology and offers fine-tuned behavioral studies.

Stroke Alliance for Europe

SAFE Secretariat, 240 City Road
London
EC1V 2PR
UK

Booth #: 33

www.safestroke.eu



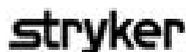
The Stroke Alliance for Europe (SAFE) is an umbrella non-profit organization that represents a range of patient groups from across Europe whose mutual goal is to drive stroke care up the European political agenda. SAFE's goal is to decrease the number of strokes in Europe by advocating for better prevention, access to adequate treatment, post-stroke care and rehabilitation. For SAFE, the whole pathway of stroke care is equally important. Therefore SAFE is working with stroke professionals, stroke commercial organisations, politicians and decision makers to improve stroke care, by ensuring the patient and carers' voice is heard.

Stryker

47900 Bayside Parkway
Fremont
94538
USA

Booth #: 13

www.strykerneurovascular.com



Stryker's Neurovascular division strives to propel the field of stroke care through continuous, purposeful innovation that powers meaningful outcomes. Focused on advancing the practice of less invasive stroke therapies through its Complete Stroke Care solutions, Stryker is dedicated to providing best-in-class solutions for ischemic and hemorrhagic stroke care, education and clinical support. Products include: stent retriever, detachable coils, stents, balloons, guidewires and microcatheters.

Swedish Acute Neurology Society - ANS

Dept. of Neurology, Karolinska University Hospital
Stockholm
17176
Sweden

Booth #: 46

www.akutneurologi.org



ANS, the Swedish Acute Neurology Society, is the largest neurological sub-specialty organisation in Sweden, counting >175 members at 40 hospitals. Founded in 2010, ANS has organised >180 live webinars for continued professional education in acute neurology, held 5 national conferences in Sweden, and produced widely-used printed educational material. ANS is an organisational member of the ESO and is affiliated with the Neurocritical Care Society.



TENSION

Martinistr. 52
Hamburg
20246
Germany
Booth #: 31



www.tension-study.eu

TENSION (efficacy and safety of Thrombectomy in Stroke with extended lesion and extended time window: a randomized, controlled trial) strives at providing effective available treatment to patients with severe stroke to reduce the individual and societal burden of death and dependency from stroke. It is a randomized, controlled trial of thrombectomy in stroke patients with extended ischemic stroke lesions presenting up to 12 hours from symptom onset, i.e. patients who are currently excluded from available effective treatment approaches.

The European Stroke Organisation (ESO)

P.O. Box
Basel
4002
Switzerland
Booth #: 06



www.eso-stroke.org

The European Stroke Organisation (ESO) is a pan-European society of stroke researchers and physicians, national and regional stroke societies and lay organisations that was founded in December 2007. The ESO's major objective is to improve stroke care in Europe by providing medical education to healthcare professionals and the lay public in Europe. By offering best practice approaches, the ESO's goal is to harmonise stroke management in Europe. The ESO focuses on European level projects. ESO has many proven educational, political and scientific activities such as the development of European Guidelines, Summer & Winter School and European Stroke Science workshop.

University of Nottingham

Division of Stroke, Hucknall Road, City Hospital Campus,
Nottingham
NG5 1PB
UK

Booth #: 32

www.nottingham.ac.uk



The University of Nottingham Stroke Trials Unit co-ordinate the TICH-2 (Tranexamic Acid for IntraCerebral Haemorrhage), RIGHT-2 (Rapid Intervention with Glyceryl trinitrate in Hypertensive stroke Trial), DASH (Desmopressin for treatment of patients taking Antiplatelet agents with Stroke due to Haemorrhage), and EuroHYP-1 [in the UK] (EU-funded therapy study on the effectiveness of mild therapeutic hypothermia for acute ischemic stroke) trials. TICH-2 recruited in the UK and internationally until 30 Sep 2017 with recruitment of over 2300 patients. RIGHT-2 is a UK ambulance-based trial recruiting in the UK and will run until 2018 with a recruitment target of 1050 patients.

Viz.ai

855 El Camino Real # 13A-252
Palo Alto
94301-2305
USA

Booth #: 12A

www.viz.ai



Viz.ai is an applied artificial intelligence healthcare company that works alongside physicians to improve stroke care. The Viz LVO Stroke Platform is the first all-in-one imaging and workflow system for stroke. It uses advanced artificial intelligence to identify LVOs in brain CTAs and triage positive LVOs to the on call stroke team. Information is delivered directly to the stroke specialist via a mobile image viewing platform which also enables secure messaging and care coordination. Viz.ai, based in San Francisco, London, and Tel Aviv, is financially backed by former Google CEO Eric Schmidt's venture capital firm, Innovation Endeavors.



WAKE-UP

Martinistraße 52
Hamburg
20246
Germany
Booth #: 30



www.wakeup-stroke.eu

WAKE-UP is a European multicentre investigator-initiated randomized placebo-controlled clinical trial of MRI based thrombolysis in acute stroke patients with unknown time of symptom onset, e.g. due to recognition of stroke symptoms on awakening. The objective of WAKE-UP is to test efficacy and safety of MRI-based intravenous thrombolysis with Alteplase in patients waking up with stroke symptoms or patients with unknown symptom onset. By this, WAKE-UP aims at providing a new safe and effective treatment option for acute stroke patients waking up with stroke symptoms.

Wisepress LTD

15 Lyon Road
London
SW19 2RL
UK
Booth #: 31A



www.wisepress.com

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World Stroke Organization

Rue Francois Versonnex 7
Geneva
1207
Switzerland
Booth #: 35

www.world-stroke.org



The World Stroke Organization (WSO) is the world's leading organization in the fight against stroke. It was established in October 2006 through the merger of the International Stroke Society and the World Stroke Federation with the purpose of creating one world voice for stroke. Today, WSO has more than 4000 individual members and over 60 society members from 85 different countries.

Zenikor Medical Systems AB

Saltmätargatan 8
Stockholm
SE-113 59
Sweden
Booth #: 22

www.zenikor.se



Zenikor Medical Systems AB has, since the start in 2003, become one of the leading medtech companies in Europe in the fields of early diagnosis of arrhythmias and stroke prevention for health care. Zenikor has developed a unique system, Zenikor-ECG, for early detection and diagnosis of arrhythmias easily and cost-effectively. The Zenikor-ECG has been evaluated in more than 25 clinical studies and four scientific theses, and among these is the STROKESTOP study. Zenikor-ECG is established in more than 350 clinics in the Nordics, Germany, Austria, Switzerland and Great Britain.



MEDTRONIC CARE CONTINUUM: PATIENT PATHWAY

SYMPOSIUM PROGRAM

Thursday, May 17th
12:45 - 14:15
Hall K1

RAPID: Advanced imaging in patient selection for Mechanical Thrombectomy

Dr. Gregory W. Albers, MD, Director, Stanford Stroke Center, Stanford University Medical Center, USA

Atrial fibrillation in stroke patients: Are you looking long enough?

Prof. Dr. med. Martin Köhrmann, Director of Clinical Stroke Research; Vice-Chairman Dept. of Neurology, Universitätsklinikum Essen (AöR), Germany

ITB therapy for post stroke spasticity - new evidence for an unmet need

Prof. Geoffrey Cloud, Director of Stroke Services, Alfred Health and Adjunct Clinical Professor of Stroke Medicine, Central Clinical School of Monash University, Melbourne, Australia

Panel Discussion



Moderator

**Prof. Antoni Dávalos, Clinical Director,
Neuroscience Department, Hospital Universitari
Germans Trias i Pujol, Barcelona, Spain**

Medtronic
Further, Together

YOU ARE INVITED

Every 30 minutes a stroke patient dies or is permanently disabled because they were treated in the wrong hospital.



PLEASE JOIN US AT OUR SYMPOSIUM

“EXPERIENCE FROM TODAY FOR THE STROKE CARE OF THE FUTURE”

Chaired by *Georgios Tsvigoulis*

**THURSDAY 17 MAY
FROM 12:45-14:15
IN HALL K2**

The symposium will feature clinical updates on acute ischaemic stroke reperfusion strategies, country specific approaches to optimising stroke care, the importance of simulation training and the relevance of quality monitoring.

We look forward to seeing you at the Angels booth in the exhibition hall to learn all about our exciting new activities that are changing the face of stroke in Europe.

The Angels initiative in Europe is committed to **increasing the number of stroke ready hospitals and optimising the quality of all existing stroke centres.**

The Angels initiative is now two years old, and we are thrilled with the progress we have made so far. Over 1,400 hospitals have registered in over 41 countries and we are continuing to gain momentum globally.

Let's continue to work together every day to **save 100,000 lives***

Angels Europe initiative is a non-promotional, pan-European health care project of Boehringer Ingelheim International GmbH to support the ESO in implementing its main goal, to improve stroke care across Europe. The Angels Initiative is supported by Medtronic.

ESO
EUROPEAN STROKE
ORGANISATION

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VISIT US AT BOOTH #10.

Indications, contraindications, warnings and instructions for use can be found in the product labeling supplied with each device.

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MOCK CODE STROKE SIMULATION TRAINING



COME EXPERIENCE ONE OF OUR
DYNAMIC SOLUTIONS IN ACTION.

To register, please email mockstroke@medtronic.com
or visit our **Booth #10**

The following sessions will take place on 16 and 17 May:

10:00 - 10:30

12:00 - 12:45

16:00 - 16:30

SPACE IS LIMITED, REGISTER TODAY.

SATELLITE SYMPOSIUM

WED
12:45

Stroke prevention and treatment: new insights into NOACs and reversal

Faculty: S Davis, HC Diener, D Toni, and M Grond

12:45–14:15, Wednesday 16 May 2018
Hall H

Join us to hear about important developments with NOACs that can inform physician choice for secondary stroke prevention and improving outcomes, including:

- What do guidelines, RCTs, and real-world studies tell us about optimizing anticoagulation for patients with AF?
- Does underdosing with NOACs put patients at increased risk of stroke and mortality?
- How does specific reversal affect management of patients with acute ischaemic stroke or intracranial haemorrhage?

How familiar are you with embolic stroke of undetermined source (ESUS)? The Faculty will discuss the concept, pathways for diagnosis, and current available treatment options.

This symposium will encourage audience interaction, allowing you to participate in voting and dedicated question and answer sessions using the ESOC Mobile App.

PENUMBRA SYSTEM



ACE68 Reperfusion Catheter

Designed for frontline thrombectomy

3D Revascularization Device

Designed for use with ACE aspiration

Penumbra 

Satellite Symposium

The patient journey through stroke: Focus on prevention of AF-related stroke

Thursday 17 May

12:45–14:15

Hall K3



Time	Topic	Speaker
12:45–12:55	The stroke patient journey: Does it only begin in the emergency room?	Arne Lindgren (Chair) <i>Sweden</i>
12:55–13:10	Evolving practical management of acute ischemic stroke	Didier Leys <i>France</i>
13:10–13:25	AF detection after a stroke – when and how intensive?	Roland Veltkamp <i>UK</i>
13:25–14:00	Roadmap of stroke prevention – role of the NOACs in improving patient outcomes	Stefan Hohnloser <i>Germany</i> Arne Lindgren <i>Sweden</i>
14:00–14:15	Road ahead – what have we learnt? What more is there to do?	Arne Lindgren (Chair) <i>Sweden</i>
	Q&A	All

AF: atrial fibrillation

ESOC: European Stroke Organisation Conference

NOAC: non-vitamin K antagonist oral anticoagulant

This Satellite Symposium is fully organised and funded by



Date of preparation: March 2018 PP-ELI-EUR-1407

THE ANGELS INITIATIVE IMPROVING STROKE CARE TO SAVE

lives

Consultancy

The 'Angels Consultants', stroke professionals dedicated to helping hospitals assess and improve their stroke procedures.

Join the Angels Initiative
and leave your legacy.

Visit www.angels-initiative today
to find out more.

Standardisation

The Stroke Kit, containing all the tools, protocols and paperwork needed to treat an acute patient at the CT scanner. Just one example of the simple, smart ideas powered by the 'Angels Initiative'.

Education

The 'Angels Academy', an educational platform providing you with world class training including a Stroke Nurse Certification course, simulations training, speaker resources and a hospital training kit.

Community

The 'Angels Community' offers a platform for the direct exchange of information and experience between 'Angels Initiative' participants.

Quality Monitoring

The 'ESO Angels Awards' uses the European Stroke Organisation's quality measures to both recognise and celebrate the quality of stroke care and improvements achieved by participating hospitals and their health care professionals.

Angels Europe initiative is a non-promotional, pan-European health care project of Boehringer Ingelheim International GmbH to support the ESO in implementing its main goal, to improve stroke care across Europe. The Angels Initiative is supported by Medtronic.



The Voice of Stroke in Europe

5th European Stroke Organisation Conference

22 - 24 May 2019 | Milan, Italy

www.eso-conference.org

MILANO



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