

ISNVD 2017
Taormina 4 May 2017
Scientific Programme

Session 1 9.30 – 10.30

Training Course on ECD. Innovative ultrasound imaging of extracranial vessels

Chairs: [Marcello Mancini](#) - [Paolo Zamboni](#)

- 1. Marcello Mancini: Ultrasound imaging of vulnerable atherosclerotic plaque**
- 2. Paolo Zamboni: Application of a lumped ECD model in CCSVI cases and in post-op follow-up**
- 3. Francesco Sisini: What does JVP tell us?**
- 4. Erica Menegatti: JVP Reproducibility**
- 5. Karen Marr: Jugular Venous flow quantification using automated compared to manual based calculation using Doppler sonography**
- 6. Carla Virgilio: How we assess IJV stenosis before angioplasty**

Lecture 1 10.35 – 10.50

[Keynote Speaker: Mat Daemen](#)

[Plaque fissure: an underestimated cause of intraplaque hemorrhage.](#)

Session 2 10.55 – 13.10

Cerebral protection device in CAS

Chairs: Piergiorgio Cao, Carlo Setacci

- 1. Marconi Stefania: Benchmark compliant models for in-vitro testing and fluid-dynamics studies applied to cerebro-vascular diseases.**
Discussant: Theodorus Van Bakel
- 2. Enrico Marone: 3D Printing can be useful in complex Arch approach for treatment of cerebrovascular disease**
Discussant: Bianca Pane
- 3. Alison Halliday: Neurological events in ACST2 trial.**
Discussant: Giaquinta Alessia
- 4. Carlo Pratesi - Aaron T. Fargion: Does local anaesthesia reduce the risk of brain hypoperfusion during carotid cross clamping?**
Discussant: Giuseppe Galzerano
- 5. Francesco Spinelli: Perioperative tips and tricks to reduce the risk of cerebral embolism during CEA**
Discussant: Giuseppe D'Arrigo
- 6. Franco Grego: A comprehensive approach is an effective strategy to prevent neurological ischemic event during CEA**
Discussant: Enrico Gallitto
- 7. Gianluca Faggioli: The impact of ischemic cerebral lesions in the outcome of symptomatic and asymptomatic patients submitted to carotid revascularization**
Discussant: Filippo Benedetto

8. Sonia Ronchey: Crossing the Aortic Arch for CAS: is always safe?

Discussant: Giovanni Spinella

9. Antonio Micari: Radial artery approach for CAS reduce the risk of cerebral embolization.

Discussant: Pasqualino Sirignano

10. Andrea Stella: Are highly calcific carotid plaques less vulnerable?

Discussant: Matteo Orrico

Debate 1

Cerebral Protection Devices

- **Pro proximal protection devices**

Piero Montorsi

- **Pro distal protection devices**

Piergiorgio Cao

Lecture 2 13.15 - 13.30

Keynote Speaker - Alberto Figueroa

Imaging and computational methods for patient-specific modeling of cerebrovascular perfusion

Session 3 13.35 – 16.05

Acute stroke prevention during TAVI and Aortic Arch repair.

Chairs: Roberto Chiesa, Michael Dake

1. Corrado Tamburino: New horizons of transcatheter mitral and aortic valve implantation.

Discussant: Davide Capodanno

2. Robert Zivadinov: Effect of a cerebral protection device on brain lesions following TAVI in patients with severe aortic stenosis.

Discussant: Franco Patti

3. Santi Trimarchi: Prevention of brain hypoperfusion and damage during open arch repair

Discussant: Laurent Chiche

4. Germano Melissano : New horizons of spinal cord protection in thoracic aneurysm repair.

Discussant: Fabio Verzini

5. Roberto Chiesa: Open repair of TAA, when and why

Discussant: Enrico Marone

6. Theodorus Van Bakel: Computational trial in Aortic Arch endovascular repair.

Discussant: Santi Trimarchi

7. Claudio Moscheni: From clinical lab to clinical experience: the process of device development

Discussant: Michele Antonello

8. Piergiorgio Cao: Total endovascular arch repair – does it increase the risk of brain injury?

Discussant: Franco Grego

9. Frans Moll: Brain protection and outcome in patient treated with endovascular Arch repair.

Discussant: Mario Lachat

10. Rylski Bartosz: Double branch stent graft in Arch repair and techniques to improve neurological outcome

Discussant: Raffaele Pulli

11. Geert-Willem Schurink: Brain protection strategies in total endovascular Arch repair

Discussant: Mauro Gargiulo

12. Michael Dake: Late update of trials with TBD device.

Discussant : Germano Melissano

13. Mario Lachat: Aortic Arch repair: The Zurich experience with a novel stent graft system waiting CE approval.

Discussant: Sonia Ronchey

14. Nicola Mangialardi: Parallel graft technique in urgent Arch repair.

Discussant: Giovanni Pratesi

15. Hamady Mohamad : Latest experience with proximal scallop stent graft.

Discussant: Gianluca Faggioli

Opening Ceremony 16.10

Pierfrancesco Veroux, Paolo Zamboni and J.S. Alexander

Session 4 16.30 – 18.30

New devices and techniques to improve outcomes of carotid treatment

Chairs: Andrea Stella, Nicola Mangialardi

- 1. Carlo Setacci: Endoluminal plaque prolapse in carotid stenting: our experience with Optical Coherent Tomography and IVUS.**
Discussant: Sonia Ronchey
- 2. Fabio Verzini : Are Close cells stents effective to reduce stroke rate ?**
Discussant: Andrea Kahlberg
- 3. Antonio Micari: Free neurological events of CS: our experience with double layer micromesh stent system.**
Discussant: Giovanni Pratesi
- 4. Francesco Speciale: Potential benefits of new generation of carotid stent**
Discussant: Enrico Marone
- 5. Micilotta Fabio: Novel technology for carotid disease: delivering performance today and tomorrow**
Discussant: D'Arrigo Giuseppe
- 6. Alberto Froio: Is Proximal Device a tool to manage complex lesions?**
Discussant: Filippo Benedetto
- 7. Francesco Setacci: As I prevent brain damage during carotid reinterventions**
Discussant: Antonio Micari

8. Domenico Palombo: Eversion technique is my first choice. As I gained the gap with CEA .

Discussant: Umberto Bracale

9. Pierfrancesco Veroux: New technical option to fix distal intimal flap during eversion carotid endarterectomy.

Discussant: Gianluca Faggioli

10. Laurent Chiche: Carotid Aneurysm

Discussant: Fabio Verzini

11. Angelo Argentero: Surgical reconstruction of the extracranial vertebral artery

Discussant: Michele Antonello

12. Mauro Gargiulo: Carotid revascularization for radiation induced stenosis

Discussant: Laura Capoccia



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Session 5 8.00 – 9.00

Annette Funicello Foundation Presentations

Chairs: Carol Schumacher, Paolo Zamboni

- 1. J. Winny Yun: Neurolymphatics and MS**
- 2. Helen Kavnoudias: Comparative findings of multimodal imaging of the internal jugular veins in MS patients.**
- 3. Robert Zivadinov: Follow up of AFRF**
- 4. Marcella Laganà: Combined study of neurodegeneration, cerebrovascular reactivity and venous drainage impairments in Parkinson's Disease and Multiple Sclerosis**
- 5. Nicole Ziliotto: Exome sequencing and transcriptomic analysis in jugular wall for detection of CCSVI biomarkers in MS**

Session 6 9.00 - 10.00

Latest breaking imaging in acute stroke.

Chairs: L. Nelson Hopkins, Hai Sun

- 1. L. Lopez-Ibor: Imaging of intracranial vascular malformations causing stroke**
- 2. Meiyun Wang: The use of MRI in early diagnosis and evaluation of cerebral ischemia**
- 3. Mark Haacke: STAGE imaging, a new rapid protocol for stroke imaging**
- 4. Corrado Cittanti : The value of PET-CT imaging to define vital and ischemic brain tissue**
- 5. Nelson Hopkins: Time is Brain: is always true? Novel emerging concepts in imaging of Acute stroke**

Lecture 3 10.00 - 10.15

Angelo Argenterì

Iconographic history of the Brain

Lecture 4 10.15 - 10.30

L. Lopez - Ibor

The story of J.Aboulker : a pioneer of neurovenous hypothesis

Session 7 10.35 – 12.45

New Horizons in the extra and intracranial treatment of Acute Ischemic Stroke

Chairs: Piergiorgio Cao, Alison Halliday

- 1. Marcello Longo: Patient selection**
- 2. A.T. Mazzeo: Anesthesiology protocols in patients with acute ischemic stroke**
- 3. L. Nelson Hopkins: Strategies, and therapeutic protocol related to brain lesions in acute setting**

Debate 2

Timing and indications of carotid treatment in acute setting

- Francesco Speziale: pro CEA**
- Nicola Mangialardi: pro CAS**

Closing remarks: Frans Moll

- 4. Roberto Chiesa: Carotid shunting decrease brain hypoperfusion and damage in patients underwent CEA in acute ischemic setting**
- 5. A. Pitrone: Latest breaking treatments of acute ischemic stroke**

Debate 3

Carotid treatment within 48 hours in patient with acute ischemic stroke:

- Hai Sun: better wait**
- Nelson Hopkins : yes, we can go.**

Closing remarks: Frans Moll

- 6. L. Lopez-Ibor: Endovascular treatment of stroke. Looking for evidences**
- 7. A. Papa: Role of thromboaspiration techniques in the treatment of acute intracranial artery occlusion**

8. Guglielmo Pero: Endovascular treatment of intracranial stenosis in acute setting

Session 8 12.45 - 15.25

Brain hypoperfusion and neurodegeneration

Chairs: J.S. Alexander, Mark Haacke

- 1. Mat Daemen: The Dutch heart brain connection program: an update**
- 2. H. Kevin Lin: Cardiac arrest induced hypoperfusion in neurodegeneration**
- 3. Marcella Laganà: Cerebral blood flow measurement with arterial spin labeling MR**
- 4. Niels Bergsland : Patterns of cerebral blood flow in the gray matter of healthy individuals: Cross sectional independent component analysis study.**
- 5. Dejan Jakimovski. Imaging of the vascular system using MRV- factors influencing inter-subject comparisons.**
- 6. Gedaminas Cepinskas: Novel protective anti-inflammatory mechanisms in cerebral circulation**
- 7. Ludmila S. Belayev: Protecting against cerebrovascular injury with novel docosanoids**
- 8. Chi Ping Chung: Intracranial arterial hemodynamics and cognitive functions**
- 9. David Della Morte: Novel molecular pathways linking metabolic and neurological disorders by regulating vascular homeostasis**

Session 9 15.25 – 16.35

Latest researches

Chair: Clive Beggs, Mark Haacke

- 1. Mark Haacke: An update of the presence of CCSVI in Parkinson's disease**
- 2. Clive Beggs: Analyzing the aqueductal cerebrospinal fluid pulse: a statistical approach**
- 3. Eleuterio Toro: CNS interacting fluid compartments: progress in mathematical modelling**
- 4. Giacomo Gadda: Monitoring cerebral venous return in astronauts during spaceflights. Correlation with vision impairments and other microgravity symptoms**
- 5. Hai Sun: The surgical management of Moyamoya disease**
- 6. Dejan Jakimovski: Low or retrograde Facial vein flow is associated with more advanced global and regional brain atrophy in MS.**

Session 10 16.40 – 17.25

Has the new generation of Carotid Stent the potential to reduce cerebral macro and micro embolization?

Chair: C. Setacci

- 1. Alison Halliday: Stent and cerebral protection in the ongoing ACST-2 Trial**
- 2. Carlo Setacci: Cas renaissance: new techniques and devices decrease early and long term brain lesion rate**
- 3. Piero Montorsi: Complex Aortic Arch anatomy: is radial approach the way to go?**
- 4. Antonio Micari: Optical coherence tomography and plaque prolapse with new generation of carotid stents**
- 5. Giuseppe Galzerano: European Clear road study: outcomes of a novel dual layer micromesh stent system for the treatment of carotid stenosis.**

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Session 11 **8.15 – 09.55**

Imaging and mechanisms of neurodegeneration

Chairs: Mat Daemen, Robert Zivadinov

- 1. Fabrizio Salvi: When developmental venous anomaly becomes aggressive: a model of brain drainage, hypoperfusion and injury**
- 2. Karen Stokes: Protein Carbonyls, Diabetes and stroke risk / severity**
- 3. Jake Neumann: Role of delta PKC in synaptic transmission and global cerebral ischemia**
- 4. Francesco Bernardi: Coagulation pathways in Multiple Sclerosis**
- 5. Douglas Fraser: Endothelial compromise in DKA, microbleeds and cognition**
- 6. Stefano Viotti : Multiple sclerosis lesion characterization with SWI and QSM at 1.5 T.**
- 7. Dejan Jakimovski: Higher frequency of neck vessels in multiple sclerosis patients-association beyond body mass index, age and gender influence.**
- 8. Franco Patti: Gray matter damage and cognitive impairment in primary progressive multiple sclerosis**

Lecture 5 10.00 - 10.20

Keynote Speaker: Byung-Boong Lee

Defective development of Vena Cava: embryological interpretation of hemodynamic consequences

Lecture 6 10.20 - 10.40

Keynote Speaker: Seshadri Raju

Compliance properties of the vein: a forgotten concept.

Ideal venous hemodynamics-oriented device for the treatment of obstructive venous disease

Session 12 10.55 - 12.45

Anatomical and hemodynamic changes of venous flow: could stenting be the solution?

Chairs: Ivo Petrov, Salvatore J.A. Sclafani

- 1. Byung-Boong Lee: Occlusive truncular venous anomaly of the Thorax and Neck: general overview**
- 2. Giaquinta Alessia: Assessment of venous size and stenosis : ECD, IVUS and Catheter Venography integrated method.**
- 3. Seshadri Raju: Indications and potential benefits of venous stenting in the treatment of occlusive disease versus balloon angioplasty**
- 4. Michael Dake: Clinical presentation and treatment of delayed venous outflow of the thorax and neck**

5. **Paolo Zamboni: Modifications of intracranial pressure following decompression of the internal jugular vein.**
6. **Pierfrancesco Veroux: compliant venous scaffold for the treatment of impaired venous outflow from the brain**
7. **Salvatore J.A. Sclafani: Left renal vein stenting is an effective method to improve spinal cord blood flow**
8. **Hector Ferral: Endovascular treatment of obstructive diseases of inferior vena cava, iliac and femoral veins.**
9. **Kenny Liu: Intracranial venous stenting for Ehlers Danlos**

Session 13 **12.50 - 14.15**

Bridging the gap between extracranial flow and Brain.

Chairs: Michael Dake - Hector Ferral

1. **Noam Alperin: The brain-eye axis and CSF: Spaceflight-induced vision impairments in astronauts**
2. **Hector Ferral : Statistical evaluation of the Amsterdam study**
3. **Ivo Petrov: Hypercapnia and hypoxaemia due to impaired venous blood draining and significant improvement after endovascular treatment in patients with CCSVI**
4. **Eleutorio Toro: A Mathematical model applied to the study of Meniere's Disease**
5. **Aldo Bruno/Luigi Califano: PTA in patients with Meniere's Syndrome: 24-month clinical outcomes.**
6. **Alessia Giaquinta / Clive Beggs: Clinical benefits after balloon angioplasty in patients with impaired IJV flow**
7. **Paolo Zamboni: Brave Dreams trial**

14.20 Awards and Closing Remarks:

J. Steven Alexander – Pierfrancesco Veroux – Paolo Zamboni

Meeting with international patients associations 15.00 – 17.15

Chairs: Fabrizio Salvi, Carol Schumacher, Pierfrancesco Veroux, Paolo Zamboni

Keynote testimonial: Nicoletta Mantovani

CCSVI nella Sclerosi Multipla

Anette Funicello Foundation

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