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

   Discussant: Davide Capodanno

   Discussant: Franco Patti

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

   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

   Discussant: Mario Lachat

10. Rilski 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

    Discussant: Sonia Ronchey

    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 Speziale: 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

   Discussant: Gianluca Faggioli

10. Laurent Chiche: Carotid Aneurysm
    Discussant: Fabio Verzini

11. Angelo Argenteri: 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 Argenteri
Iconographyc 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

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

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
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
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
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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.
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
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.


7. Salvatore J.A. Sclafani: Left renal vein stenting is an effective method to improve spinal cord blood flow.


Session 13 12.50 - 14.15

Bridging the gap between extracranial flow and Brain.

Chairs: Michael Dake – Hector Ferral


3. Ivo Petrov: Hypercapnia and hypoxaemia due to impaired venous blood draining and significant improvement after endovascular treatment in patients with CCSVI.


5. Aldo Bruno/Luigi Califano: PTA in patients with Meniere’s Syndrome: 24-month clinical outcomes.


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

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