In coming ISNVD 2017 Programme

May 4, 2017
Clinical Training Symposium

Session 1  9.30 - 12.00
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. Mirko Tessari: 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. Pietro Maria Bavera: How I assess Internal Jugular Veins anomalies
7. Carla Virgilio: How we assess IJV stenosis before angioplasty

Live cases: Alessia Giaquinta, Carla Virgilio, Mirko Tessari and Ilaria Bartolomei

Opening Ceremony  12.00
Pierfrancesco Veroux and Paolo Zamboni

Lecture 1  12.10 - 12.25
Keynote Speaker: Mat Daemen
Plaque fissure: an underestimated cause of intraplaque hemorrhage.
Cerebral protection device in CAS
Chairs: Piergiorgio Cao, Carlo Setacci,

1. **Marconi Stefania**: Application of 3D printing facilities to in vitro fluid-dynamic studies
   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  14.00 - 14.20

Keynote Speaker - Alberto Figueroa

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

Session 2  14.20 – 15.40

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
   Discussant: Giovanni Pratesi
3. Francesco Speziale: Potential benefits of C-guard stent  
   Discussant: Enrico Marone
4. Micilotta Fabio: Gore technology for carotid disease: delivering performance today and tomorrow  
   Discussant: TBD
5. Francesco Setacci: As I prevent brain damage during carotid reinterventions  
   Discussant: Antonio Micari
6. Domenico Palombo: Eversion technique is my first choice. As I gained the gap with CEA .  
   Discussant: Umberto Bracale
   Discussant: Gianluca Faggioli
8. Laurent Chiche: Carotid Aneurysm  
   Discussant: Fabio Verzini
9. Angelo Argenteri: Surgical reconstruction of the extracranial vertebral artery
   Discussant: Michele Antonello

10. Mauro Gargiulo: Carotid revascularization for radiation induced stenosis
    Discussant: Laura Capoccia

Debate 2
When I use Close or Open Cells stent in CAS

- Are Close cells stents effective to reduce stroke rate?
  Fabio Verzini
- Carotid with tortuous anatomy: Open cells stent is my first choice
  TBD

Session 3 15.50 – 17.50
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: TBD
8. Piergiorgio Cao: Total endovascular arch repair – does it increase the risk of brain injury?  
   Discussant: Franco Grego
   Discussant: Mario Lachat
10. Rilski Bartosz: Bolton Relay 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 with Cook stent graft system  
    Discussant: Mauro Gargiulo
12. Michael Dake: Late update of trials with the Gore TBD device.  
    Discussant: Germano Melissano
    Discussant: Sonia Ronchey
    Discussant: Giovanni Pratesi
    Discussant: D’Arrigo Giuseppe

May 5  ISNVD 2017 Meeting

8.30  Opening Ceremony
Pierfrancesco Veroux, Paolo Zamboni and J.S. Alexander

Session 4  8.45 - 10.30
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  10.30 - 10.40
Angelo Argenteri
Iconography of the Brain

Lecture 4  10.40 - 10.50
L. Lopez – Ibor
The story of J. Aboulker: a pioneer of neurovenous hypothesis

Session 5     10.50 - 12.30
New Horizons in the treatment of Acute Stroke
Chairs: Piergiorgio Cao, Alison Halliday

1. L. Nelson Hopkins: Strategies, and therapeutic protocol related to brain lesions in acute setting
2. L. Lopez-Ibor: Endovascular treatment of stroke. Looking for evidences

Debate 3
Timing and indications of carotid treatment in acute setting

   • Francesco Speziale: pro CEA
   • Nicola Mangialardi: pro CAS

Closing remarks: Frans Moll

3. Carlo Setacci: Cas renaissance: new techniques and devices decrease early and long term brain lesion rate
4. Roberto Chiesa: Carotid shunting decrease brain hypoperfusion and damage in patients underwent CEA in acute setting

Debate 4
Carotid treatment within 48 hours in patient with acute stroke:

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

Closing remarks: Frans Moll
Lunch session 2  

**12.40 - 13.30**

**Latest breaking intra cranial treatments for acute stroke**

**Chairs:** L. Nelson Hopkins, Mario Zappia

**Marcello Longo:** Patient Selection

**A.T.Mazzeo:** Anestesiology protocols in patients with acute stroke

**A. Pitrone:** Endovascular treatment of acute stroke

**A. Papa:** Role of Thromboaspiration system in acute occlusion

**G. Pero:** Treatment of intracranial stenosis in acute setting

**Closing Remarks:** Nelson Hopkins

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**Session 6  
13.40 – 14.30**

**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
6. **Eleutorio Toro:** A Mathematical model applied to the study of Meniere’s Disease

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**Session 7  
14.40 - 16.30**

**Brain hypoperfusion and neurodegeneration**

**Chairs:** J.S. Alexander, Mark Haacke

1. **Mat Daemen:** The Dutch heart brain connection program: an update
2. **Fabrizio Salvi:** When developmental venous anomaly becomes aggressive: a model of brain drainage, hypoperfusion and injury
3. **H. Kevin Lin:** Cardiac arrest induced hypoperfusion in neurodegeneration
4. Marcella Laganà: Cerebral blood flow measurement with arterial spin labeling MR
8. Ludmila S. Belayev: Protecting against cerebrovascular injury with novel docosanoids
9. Chi Ping Chung: Intracranial arterial hemodynamics and cognitive functions

16.30 – 17-30  Symposium - Roadsaver Carotid Stent

Session 8      17.30 - 18.30
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.

May 6 ISNVD 2017 Meeting

Session 9      8.30 – 10.00
Imaging and mechanisms of neurodegeneration
Chairs: Mat Daemen, Robert Zivadinov

1. Karen Stokes: Protein Carbonyls, Diabetes and stroke risk / severity
2. Jake Neumann: Role of delta PKC in synaptic transmission and global cerebral ischemia
3. Francesco Bernardi: Coagulation pathways in Multiple Sclerosis
4. Douglas Fraser: Endothelial compromise in DKA, microbleeds and cognition
5. David Della Morte: Novel molecular pathways linking metabolic and neurological disorders by regulating vascular homeostasis
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 10 10.50 - 12.50
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. Salvatore Spagnolo: Open surgery reconstructions of anomalous cerebral outflow.
6. Paolo Zamboni: Modifications of intracranial pressure following decompression of the internal jugular vein.
7. Pierfrancesco Veroux: compliant venous scaffold for the treatment of impaired venous outflow from the brain
8. Salvatore J.A. Sclafani: Left renal vein stenting is an effective method to improve spinal cord blood flow

Lunch session 3  13.00 - 14.35

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

14.40 Awards and Closing Remarks:
J. Steven Alexander – Pierfrancesco Veroux

Meeting with international patients associations  15.30 – 17.30

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

Keynote testimonial: Nicoletta Mantovani
Abbraccio Onlus, CCSVI nella Sclerosi Multipla, Assi.SM, CCSVI Alliance Interactive webinar
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