



7th Annual ISNVD Scientific Meeting, Taormina (Italy) May 4th – 6th, 2017
Hotel Capo Taormina
President of the Congress: Prof Pierfrancesco Veroux

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.

Lunch session 1 12.30 - 14.00

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 usefull 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
2. Antonio Micari: Free neurological events of CS: our experience with Roadsaver double layer micromesh stent system.
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
7. Pierfrancesco Veroux: New technical option to fix distal intimal flap during eversion carotid endarterectomy.
Discussant: Gianluca Faggioli
8. Laurent Chiche: Carotid Aneurysm
Discussant: Fabio Verzini

9. Angelo Argentero: 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

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: TBD

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. **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
13. **Mario Lachat: Aortic Arch repair: The Zurich experience with Nexus stent graft system.**
Discussant: Sonia Ronchey
14. **Nicola Mangialardi: Parallel graft technique in urgent Arch repair.**
Discussant: Giovanni Pratesi
15. **Hamady Mohamad : Latest experience with Bolton Relay proximal scallop stent graft.**
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 Argenterì

Iconographic history of the Brain

Lecture 4 10.40 - 10.50

L. Lopez – Ibor

The story of J. Aboulker : a pioneer of neurovascular 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: Carotid 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: Anesthesiology 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

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**

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
5. Niels Bergsland : Patterns of cerebral blood flow in the gray matter of healthy individuals: Cross sectional independent component analysis study.
6. Dejan Jakimovski. Imaging of the vascular system using MRV- factors influencing inter-subject comparisons.
7. Gedaminas Cepinskas: Novel protective anti-inflammatory mechanisms in cerebral circulation
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 - Road saver 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
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.

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.**
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 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**
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. **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**
9. **Hector Ferral: Endovascular treatment of obstructive diseases of inferior vena cava and iliac veins.**
10. **Kenny Liu: Intracranial venous stenting for Ehlers Danlos**

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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