

WFNS2022 | SCIENTIFIC PROGRAM

13/03/2022

07:50 - 10:20 PRE-CONGRESS COURSE VASCULAR - Aneurysm

Room HI **Moderators:** *Rangel-Castilla, Leonardo Lanzino, Giuseppe*

7:50 - 08:00 Opening

Giuseppe Lanzino (United States)

8:00 - 08:20 Surgery for vertebrobasilar disease

Fady Charbel (United States)

8:20 - 08:40 Endovascular Techniques for Basilar Aneurysms

Ali Alaraj (United States)

8:40 - 09:00 Microsurgical Techniques for Large and Giant Aneurysms

Jacques Morcos (United States)

8:50 - 09:10 Hybrid treatment of cerebral aneurysms - treating patients not aneurysms

Leonardo Rangel-Castilla (Mexico)

9:00 - 09:20 Endovascular Techniques for Large and Giant Aneurysms

Nader Sourour (France)

9:10 - 09:30 Endovascular Techniques for ACM Complex Aneurysms

Michel Piotin (France)

9:30 - 09:50 Case Aneurysm Presentation

Jean Goncalves de Oliveira (Brazil)

09:40 - 11:10 PRE-CONGRESS COURSE NEUROANATOMY II - Vascular Anatomy

Room N **Moderators:** *Broggi, Giovanni*
Maldonado, Mr. Igor Lima

- 9:40 - 09:52 Anatomical aspects of AVM surgery.
Vladimir Benes (Czech Republic)
- 10:04 - 10:16 Paraclinoid Aneurysm
TBD (TBD)
- 10:16 - 10:28 Anatomical Variations of Anterior Communicating Artery.
Victor Hugo Pérez Pérez (Mexico)
- 10:28 - 10:40 Surgery for A-com. Aneurysms
Ramesh Nair (United Kingdom)
- 10:40 - 10:52 The Maxillary Artery Surgical Anatomy
Jorge Alvernia (United States)
- 10:52 - 11:10 Discussion

10:50 - 12:10 PRE-CONGRESS COURSE VASCULAR - AVM

Room HI **Moderators:** *de Oliveira, Jean Goncalves*
Morcos, Jacques

- 10:50 - 11:10 Microsurgical Excision of Cerebral AVMs
Edgar Nathal Vera (Mexico)
- 11:10 - 11:30 Cerebral AVM embolization - surgeons point of view
Leonardo Rangel-Castilla (Mexico)
- 11:30 - 11:50 Transvenous Embolization Techniques in Brain AVMs
Michel Piotin (France)
- 11:50 - 12:10 Case Brain AVM presentation
Edgar Nathal Vera (Mexico)

13/03/2022

14:00 - 16:00 PRE-CONGRESS COURSE VASCULAR - DAVF

Room HI **Moderators:** *Lopes, Demetrius*
Sourour, Nader

- 14:00 - 14:20 Microsurgical Excision Cranial Dural AVF
Fernando González Trujillo (United States)
- 14:20 - 14:40 Endovascular Techniques for Cranial Dural AVF
Michel Piotin (France)
- 14:40 - 15:00 Microsurgical Excision Spinal Dural AVF
Fernando González Trujillo (United States)
- 15:00 - 15:20 Endovascular Techniques for Spinal Dural AVF
Nader Sourour (France)
- 15:20 - 16:00 Dural AVF Panel Discussion
- 15:20 - 15:40 Case Spinal Dural AVF Presentation
Fernando González Trujillo (United States)
- 15:40 - 16:00 Case Cranial Dural AVF Presentation
Giuseppe Lanzino (United States)

16:30 - 18:00 PRE-CONGRESS COURSE VASCULAR - Carotid

Room HI **Moderators:** *Piotin, Michel*
González Trujillo, Fernando

- 16:30 - 16:50 Asymptomatic carotid stenosis. How to approach
Ali Alaraj (United States)
- 16:50 - 17:10 Thrombectomy Techniques for Large Vessel Occlusion
Demetrius Lopes (United States)
- 17:10 - 17:30 Carotid Panel Discussion
- 17:10 - 17:30 Case Carotid Endarterectomy
Jacques Morcos (United States)
- 17:30 - 17:50 Case Acute Stroke
Demetrius Lopes (United States)
- 17:50 - 18:00 Final Remarks
Giuseppe Lanzino (United States)

07:00 - 08:30 STATE OF ART - Vascular I

Room HI **Moderators:** *Polónia, Patrícia*
Alaraj, Ali

- 7:00 - 07:15 Early Brain Injury and Delayed Cerebral Ischemia after SAH. Physiopathology and Current Treatment
Leonidas Quintana (Chile)
- 7:15 - 07:30 Unruptured Intracranial Aneurysms less than 5 mm. Endovascular treatment: Indications and Techniques
Michel Piotin (France)
- 7:30 - 07:45 Surgical Techniques for Aneurysm Therapy
Leonardo Rangel-Castilla (Mexico)
- 7:45 - 08:00 Aneurysmal Surgery. Lessons I have learned
Ioan Stefan Florian (Romania)
- 8:00 - 08:15 Anterior communicating artery aneurysms: treatment strategies and return-to-work. A review of 145 patients
Patrícia Polónia (Portugal)
- 8:15 - 08:30 Causes of death in aneurysm therapy 1990-2005 and 2008-2022: Did we make any progress
Veit Rohde (Germany)

08:40 - 10:10 CONTROVERSIES IN NEUROSURGERY - Vascular I

Room HI **Moderators:** *Morcos, Jacques*
Pabon, Boris

- 8:40 - 08:55 Complex aneurysms: Surgical Solutions
Ioan Stefan Florian (Romania)
- 8:55 - 09:10 Large and Giant Aneurysms: Flow Diverter as First Option
Nader Sourour (France)
- 9:10 - 09:25 Stroke management real facts - first and third world country differences
Leonardo Rangel-Castilla (Mexico)
- 9:25 - 09:40 Microsurgical clipping vs Woven EndoBridge device for the management of unruptured wide-neck bifurcation aneurysms.
Veit Rohde (Germany)
- 9:40 - 10:10 Discussion

10:40 - 11:00 PLENARY SESSION - Vascular I

Auditorium **Moderators:** *Úrculo, Enrique*
Oyesiku, Nelson
Rubiano, Andrés

- 10:40 - 11:00 Symptomatic Grade III AVM. How to treat it
Giuseppe Lanzino (United States)

07:00 - 08:30 STATE OF ART - Vascular II

Room HI **Moderators:** *Revilla Pacheco, Francisco de Oliveira, Jean Goncalves*

- 7:00 - 07:15 Minimally Invasive Microsurgery for Cerebral Aneurysms
Michael Tymianski (Canada)
- 7:15 - 07:30 Advanced surgery for Aneurysms: Myths and facts
Fady Charbel (United States)
- 7:30 - 07:45 Bypass Techniques for Giant Aneurysms
Jacques Morcos (United States)
- 7:45 - 08:00 Management of Intracranial Large and Giant Aneurysms. Surgery or Endovascular Treatment
Vladimir Benes (Czech Republic)
- 8:00 - 08:15 Woven Endobridge (WEB) as Primary Treatment for Intracranial Aneurysms
Boris Pabon (Colombia)
- 8:15 - 08:30 Avoidance and management of complications in endovascular surgery.
Leonardo Rangel-Castilla (Mexico)

08:40 - 10:10 CONTROVERSIES IN NEUROSURGERY - Vascular II

Room HI **Moderators:** *Moret, Jacques Charbel, Fady*

- 8:40 - 08:55 Paraclinoid Aneurysms. Endovascular Techniques as First Option
Giuseppe Lanzino (United States)
- 8:55 - 09:10 Paraclinoid Aneurysms. Surgical Techniques as First Option
Jean Goncalves de Oliveira (Brazil)
- 9:10 - 09:25 Complex Aneurysm: Endovascular Technique as First Option
Leonardo Rangel-Castilla (Mexico)
- 9:25 - 09:40 Complex MCA Aneurysms: Surgical Techniques as First Option
Francisco Revilla Pacheco (Mexico)

16:30 - 16:50 PLENARY SESSION - Vascular II

Auditorium **Moderators:** *Borba, Luis Grotenhuis, André Perilla, Tito*

- 16:30 - 16:50 From Bench to Bedside - Development of Neuroprotectants for Cerebral Ischemia
Michael Tymianski (Canada)

07:00 - 08:30 STATE OF ART - Vascular III

Room HI **Moderators:** *Fonnegra, Andres
Bernardo, Antonio*

- 7:00 - 07:10 Hemodynamics of Brain AVMs
Ali Alaraj (United States)
- 7:15 - 07:30 Treatment of AVMs: Current Concepts and Future Directions
Michael Tymianski (Canada)
- 7:30 - 07:45 Current Management Strategy for Unruptured Cerebral AVM
Demetrius Lopes (United States)
- 7:45 - 08:00 Preoperative planning for AVM surgery
Ramesh Nair (United Kingdom)
- 8:15 - 08:30 Radiosurgery for AVMs: Indications, Treatment Modalities, Complications
Andres Fonnegra (Colombia)

08:40 - 10:10 CONTROVERSIES IN NEUROSURGERY - Vascular III

Room HI **Moderators:** *Tymianski, Michael
Lopes, Demetrius*

- 8:40 - 08:55 Basilar Apex Aneurysms: Endovascular Techniques as First Option
Boris Pabon (Colombia)
- 8:55 - 09:10 Basilar Apex Aneurysms: Surgical Techniques as First Option
Antonio Bernardo (United States)
- 9:10 - 09:25 Microsurgical Clipping Indications of Posterior Fossa Aneurysms in the Endovascular Era
Robert Dempsey (United States)
- 9:25 - 09:40 Endovascular Techniques for Vertebrobasilar Dolichoectatic Fusiform Aneurysm
Ali Alaraj (United States)
- 9:40 - 09:55 Microsurgical excision of Brain AVM in eloquent area
Jean Goncalves de Oliveira (Brazil)

10:40 - 11:00 PLENARY SESSION - Vascular III

Auditorium **Moderators:** *Quintana, Leonidas
Arráez Sánchez, Miguel Angel
Osorio, Enrique*

- 10:40 - 11:00 Endovascular Techniques for Complex Aneurysms
Jacques Moret (France)

11:20 - 11:40 PLENARY SESSION - Vascular IV

Auditorium **Moderators:** *Osorio, Enrique*
Quintana, Leonidas
Arráez Sánchez, Miguel Angel

11:20 - 11:40 Evolution of bypass surgery for Moyamoya disease
Fady Charbel (United States)

14:00 - 16:00 VIDEO SESSIONS - Vascular

Room HI **Moderators:** *Gonzalez-Llanos Fernandez De Mesa, Francisco*
Benes, Vladimir

14:12 - 14:24 Microsurgical Clipping of ACoA Aneurysm
Robert Dempsey (United States)

14:12 - 14:24 Microsurgical Clipping of Basilar Apex Aneurysm
Robert Dempsey (United States)

14:24 - 14:36 PICA to PICA Anastomosis for Complex Posterior Fossa Aneurysm
Michael Tymianski (Canada)

14:36 - 14:48 Bypass for MCA Giant Aneurysm
Francisco Gonzalez-Llanos Fernandez De Mesa (Spain)

14:48 - 15:00 Complications of Basilar artery endovascular mechanical thrombectomy
Leonardo Rangel-Castilla (Mexico)

15:00 - 15:12 Woven Endobridge (WEB) for MCA Aneurysm
Boris Pabon (Colombia)

15:12 - 15:24 Ruptured complex middle cerebral artery aneurysm clipping.
Dorothee Milke (Germany)

15:24 - 15:36 Awake surgical resection for AVM
Saleem I. Abdulrauf (United States)

15:36 - 15:48 Surgical Resection of Cortical AVMs in Eloquent Motor Area
Jorge Mura (Chile)

15:48 - 16:00 Trigeminal neuralgia caused by veins: microvascular decompression technique
Enrique Úrculo (Spain)

16:30 - 18:10 VIDEO SESSIONS - Vascular II

Room HI **Moderators:** *Piotin, Michel*
Mura, Jorge

- 16:30 - 16:42 Microsurgical Excision for Deep AVM
Francisco Revilla Pacheco (Mexico)
- 16:42 - 16:54 Contralateral subfalcine approach for cingulum/callosal AVM
Leonardo Rangel-Castilla (Mexico)
- 16:54 - 17:06 Endovascular Transvenous Treatment for Brain AVM
Michel Piotin (France)
- 17:06 - 17:18 Carotid Endarterectomy for Symptomatic Carotid Stenosis
Vladimir Benes (Czech Republic)
- 17:18 - 17:30 Carotid Angioplasty for Symptomatic Carotid Stenosis
Rafael Del Cristo Almeida Perez (Colombia)
- 17:30 - 17:42 Microsurgical Excision Spinal Dural AVF
Fernando González Trujillo (United States)
- 17:42 - 17:54 Endovascular Approach for Carotid Cavernous Fistula
Gustavo Melo (Mexico)

07:00 - 08:30 STATE OF ART - Vascular IV

Room H1 **Moderators:** *Mura, Jorge*
Abdulrauf, Saleem I.

- 7:00 - 07:15 Carotid Plaque Instability
Robert Dempsey (United States)
- 7:15 - 07:30 Carotid Endarterectomy Update: Main Indications, Technical Details, Complications
Jacques Morcos (United States)
- 7:30 - 07:45 Awake Craniotomy for Resection of Brain AVM
Saleem I. Abdulrauf (United States)
- 7:45 - 08:00 Neuro-hybrid treatment for unruptured cerebral AVMs. Current Concepts
Gustavo Melo (Mexico)
- 8:00 - 08:15 Surgical Treatment of Spinal Dural AV Fistulas: Current Concepts and Future Directions
Miroslav Vukić (Croatia)

07:00 - 08:30 STATE OF ART - Vascular V

Room N **Moderators:** *Pradilla, Gustavo*
Nathal Vera, Edgar

- 7:00 - 07:15 Classification and Natural History of DAVFs: The Significance of Cortical Reflux and Venous Ectasia
Orlando Diaz (United States)
- 7:15 - 07:30 Endovascular Management of DAVFs of the Transverse and Sigmoid Sinuses
Orlando Diaz (United States)
- 7:30 - 07:45 Surgical Approaches for Brainstem Cavernous Angiomas
Andrés Cervio (Argentina)
- 7:45 - 08:00 Endovascular Techniques for Carotid Cavernous Fistulae
Orlando Diaz (United States)
- 8:15 - 08:30 Minimally Invasive Techniques for Evacuation of Intracerebral Clots
Gustavo Pradilla (United States)
- 8:15 - 08:30 Discussion

08:40 - 10:10 CONTROVERSIES IN NEUROSURGERY - Vascular IV

Room HI Moderators: *Cervio, Andrés*
Melo, Gustavo

- 8:40 - 08:55 What is the Optimal Time to Treat a Ruptured AVM
Ioan Stefan Florian (Romania)
- 8:55 - 09:10 Grade 3 Spetzler-Martin Cortical AVM: What is the First Line Approach
Edgar Nathal Vera (Mexico)
- 9:10 - 09:25 Unruptured Intracranial Aneurysms < 5mm. When to Treat
Jorge Mura (Chile)
- 9:40 - 09:55 Asymptomatic Cavernoma: When to Treat
Barbara Masotto (Italy)

07:00 - 08:30 VASCULAR DECOMPRESSIONS SYMPOSIUM - Recognition to Prof Marc Sindou I**Room G** Moderators: *Osorio, Enrique*

- 7:00 - 07:15 Relation of Cranial Nerves (V, VII, VIII, IX, X) to brain vessels
Igor Lima Maldonado (Brazil)
- 7:15 - 07:30 Percutaneous Trayectory to Reach out the Trigeminal Neve through the Foramen Oval. Anatomical structures to be avoid
Jorge Alvernia (United States)
- 7:30 - 07:45 Microsurgical anatomy of the cranial nerve centric triangles of the posterior cranial base
Rogelio Revuelta-Gutierrez (Mexico)
- 7:45 - 08:00 The efficacy and safety of Internal Neurolysis for trigeminal neuralgia without neurovascular compression
Marco Gonzales-Portillo (Perú)
- 8:00 - 08:15 Gamma Knife for trigeminal neuralgia
Henin Mora (Ecuador)
- 8:15 - 08:30 Management of Glossopharyngeal Neuralgia
Jonathan Ortiz Rafael (Mexico)
- 8:15 - 08:30 Management of Glossopharyngeal Neuralgia
Rogelio Revuelta-Gutierrez (Mexico)

07:00 - 08:30 STATE OF ART - Vascular VI**Room HI** Moderators: *Mura, Jorge*
Florian, Ioan Stefan

- 7:00 - 07:15 Stenting for venous sinus stenosis, role of hemodynamics
Ali Alaraj (United States)
- 7:15 - 07:30 Bypasses and Reconstruction in Aneurysms of Anterior Circulation
Francisco Gonzalez-Llanos Fernandez De Mesa (Spain)
- 7:30 - 07:45 Bypasses and Reconstruction in Aneurysms of Posterior Circulation
Jorge Mura (Chile)
- 7:45 - 08:00 EC-IC bypass in cerebral ischemic lesion
Saleem I. Abdulrauf (United States)
- 8:00 - 08:15 Minimally Invasive Techniques for Evacuation of Intraventricular Clots
Gustavo Pradilla (United States)
- 8:15 - 08:30 Cranioplasty in Stroke patients
Corrado Iaccarino (Italy)

08:40 - 10:10 CONTROVERSIES IN NEUROSURGERY - Vascular VI

Room HI **Moderators:** *Charbel, Fady*
Diaz, Orlando

- 8:40 - 08:55 Microneurosurgical Treatment of Complex Anterior Communicating Aneurysm as First Option
Erhan Türkoglu (Turkey)
- 8:55 - 09:10 Flow Quantification in Steno-occlusive disease
Ali Alaraj (United States)
- 9:10 - 09:25 Intracranial Atherosclerosis: Indications of Surgical Therapy
Francisco Gonzalez-Llanos Fernandez De Mesa (Spain)
- 9:25 - 09:40 Bail out using intracranial stenting during mechanical thrombectomy
Orlando Diaz (United States)

09:00 - 10:10 VASCULAR DECOMPRESSIONS SYMPOSIUM - Recognition to Prof Marc Sindou II

Room G **Moderators:** *Mora, Henin*
Carrillo Ruiz, Mr. Jose Damian

- 9:00 - 09:15 Hemifacial Spasm. Surgical Approach
Antonio Daher (Venezuela)
- 9:15 - 09:30 Familial Trigeminal Neuralgia
Enrique Osorio (Colombia)
- 9:30 - 09:50 Classical Trigeminal Neuralgias: from Imaging to Surgery
Marc Sindou (France)
- 9:50 - 10:00 Discussion - Vascular decompressions Symposium
- 10:00 - 10:10 Prof. Marc Sindou's life synopsis
Enrique Osorio (Colombia)
- 10:00 - 10:10 Prof. Marc Sindou's life synopsis
Jorge Alvernia (United States)

10:40 - 11:00 PLENARY SESSION - Vascular V

Auditorium **Moderators:** *Fonseca, Marco*
El Abbadi, Prof. Najia
Soriano Sánchez, Jose Antonio

- 10:40 - 11:00 Bypass Past, Present, Future
Francisco Gonzalez-Llanos Fernandez De Mesa (Spain)