

# European **Vascular** and **Endovascular** Neurosurgery Master Study Program

## THEORETICAL LESSONS and HANDS-ON PROGRAM

PROGRAM DIRECTOR:  
**Simone PESCHILLO**

Endorsed by:





## European Vascular and Endovascular Neurosurgery Master Study Program

### Faculty

Francesco <b>Acerbi</b>	ITA	Massimo <b>Miscusi</b>	ITA
Alejandro <b>Tomaselo</b>	SPA	David <b>Netuka</b>	CZE
Adam <b>Arthur</b>	USA	Erez <b>Nossek</b>	USA
David <b>Bervini</b>	SUI	Takahiro <b>Ota</b>	JPN
Carlo <b>Bortolotti</b>	ITA	Emanuele <b>Orrù</b>	USA
Jan Karl <b>Burkhardt</b>	USA	Giacomo <b>Pavesi</b>	ITA
Delia <b>Cannizzaro</b>	ITA	Rebeca <b>Pérez-Alfayate</b>	SPA
Andrea <b>Cardia</b>	SUI	Simone <b>Peschillo</b>	ITA
Giuseppe <b>Catapano</b>	ITA	Francesco <b>Puccinelli</b>	SUI
Marco <b>Cenzato</b>	ITA	Eytan <b>Raz</b>	USA
Vittorio <b>Civelli</b>	FRA	Veit <b>Rohde</b>	GER
Alfredo <b>Conti</b>	ITA	Maksim <b>Shapiro</b>	USA
Francesco <b>Diana</b>	ITA	Francesco <b>Signorelli</b>	ITA
Alberto <b>Feletti</b>	ITA	Carmelo <b>Sturiale</b>	ITA
Paolo <b>Ferrolì</b>	ITA	Victor <b>Volovici</b>	NLD
Andreu <b>Gabarrós Canals</b>	SPA	Serena <b>Tola</b>	ITA
Federico <b>Griva</b>	ITA	Luigino <b>Tosatto</b>	ITA
Andreas <b>Gruber</b>	AUT	Peter <b>Vajkoczy</b>	GER
Christina <b>Iosif</b>	FRA		
Giuseppe <b>Lanzino</b>	USA	Luca <b>Valvassori</b>	ITA
Pedro <b>Lylyk</b>	ARG	Nikolay <b>Velinov</b>	BUL
Pablo <b>Lopez Ojeda</b>	SPA	Shinichi <b>Yoshimura</b>	JPN
Francesco <b>Massari</b>	USA	Daniel <b>Walsh</b>	GBR

### Special lectures

Xu **Bin**

Ioan-Ștefan <b>Florian</b>	Jorge <b>Mura</b>
Marco M. <b>Fontanella</b>	Pierpaolo <b>Peruzzi</b>
Hubert <b>Desal</b>	Antonino <b>Raco</b>
Pascal M. <b>Jabbour</b>	Franco <b>Servadei</b>
Ekkehard <b>Kasper</b>	Yong-Sam <b>Shin</b>
Giuseppe <b>Lanzino</b>	Shoki <b>Takahashi</b>
Martin <b>Lehecka</b>	Alejandro <b>Tomaselo</b>

### Hands-on Sessions

Venue: Unicamillus – Via di Sant'Alessandro, 8

June, 6<sup>th</sup> 2024; November, 22<sup>th</sup> 2024 – All day long



## European Vascular and Endovascular Neurosurgery Master Study Program

HOSTING CENTERS		SCIENTIFIC REFERENTS - TUTORS	
MILANO/SS PIETRO E PAOLO		VALVASSORI	
BARCELONA		TOMASELO / DIANA	
MILANO/NIGUARDA			CENZATO
BOLOGNA			STURIALE / BORTOLOTTI
GÖTTINGEN			ROHDE
MADRID			GONZÁLEZ-LLANOS
MILANO/BESTA			ACERBI
LINZ		GRUBER <sup>abcj</sup>	
BARCELONA		GABARRÓS CANALS - OJEDA	

	ENDOVASCULAR
	OPEN VASCULAR
	HYBRID

### CONTACTS

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Carlo Bortolotti	bortolotticarlo@yahoo.it
Pablo Lopez Ojeda	pablo.fellowship@gmail.com



## European Vascular and Endovascular Neurosurgery Master Study Program

### THEORETICAL LESSONS PROGRAM

#### April 4<sup>th</sup>, 2024 (on-line) – Anatomy

TIME	TITLE	SPEAKER
14:00 – 14:30	Special Lecture	
14:30 – 15:00	Embryological vascular anatomy of the central nervous system	E. Raz
15:00 – 15:30	Angiographic anatomy: arterial and venous systems of brain and spine	M. Shapiro
15:30 – 16:00	EC circulation and EC-IC anastomoses: tips for vascular and endovascular neurosurgery	M. Shapiro
16:00 – 16:30	Cone Beam CT: microvascular anatomy	E. Raz
16:30 – 17:00	Carotid-basilar anastomoses	T. Ota
17:00 – 18:00	DISCUSSION	

#### May 14<sup>th</sup>, 2024 (on-line) – Brain aneurysm

TIME	TITLE	SPEAKER
13:00 – 13:30	Special Lecture	S. Takahashi
13:30 – 14:00	Ruptured and unruptured aneurysm: indications for treatment	A. Cardia
14:00 – 14:30	Basic principles in aneurysm surgery: tips and tricks	A. Feletti
14:30 – 15:00	Vascular and microsurgical instrumentation and equipment	F. Acerbi
15:00 – 15:30	Surgical approaches: Pterional / Pretemporal / Oz Approaches	F. Acerbi
15:30 – 16:00	Surgical approaches: Minipterional, Lso, Eyebrow, Endoscopic Pterional	P. Ferroli
16:00 – 16:30	Surgical approaches: Subtemporal, Pretemporal Approaches, Transsylvian Transclinoidal and Transcavernous to Basilar Tip	D. Walsh
16:30 – 17:00	Surgical approaches: Retrolabyrinthine Transsigmoid and Extreme Lateral Infrjugular Transcondylar-Transtubercular, Kawase	P. Vajkoczy
17:00 – 17:30	Complications: how to avoid and get out of them	V. Volovici
17:30 – 18:00	DISCUSSION	

#### June 18<sup>th</sup>, 2024 (on-line) – Brain aneurysm

TIME	TITLE	SPEAKER
09:00 – 09:20	Indications for microsurgical cerebral revascularization	C. Bortolotti
09:20 – 09:40	Extracranial–Intracranial Bypass: Superficial temporal artery to middle cerebral artery anastomosis	B. Xu
09:40 – 10:00	Indication and consideration in graft and donor selection for cerebral bypass	E. Nossek
10:00 – 10:20	Revascularization options for complex aneurysms	M. Cenzato
10:20 – 10:40	Awake open surgical for brain aneurysms	D. Netuka
10:40 – 11:00	Neuro Hybrid Operating Room in vascular and endovascular neurosurgery	A. Gruber
11:00 – 11:20	Endovascular assisted aneurysm clipping in a hybrid OR	A. Gabarrós Canals
11:20 – 11:50	DISCUSSION	
11:50 – 12:10	General aspects of interventional procedures	F. Massari
12:10 – 12:30	Endovascular instrumentation and equipment	E. Orrù
12:30 – 12:50	Vascular access in brain aneurysms: femoral vs radial	E. Orrù
12:50 – 13:10	Basic and advanced endovascular techniques: Coils and Balloon-Assisted coiling, Stent-Assisted Coil embolization	S. Yoshimura
13:10 – 14:10	PAUSE	



## European Vascular and Endovascular Neurosurgery Master Study Program

14:10 – 14:30	Flow-diverters	A. Arthur
14:30 – 14:50	Flow-disruptors	A. Arthur
14:50 – 15:10	Clipping or coiling: decision making	J.K. Burkhardt
15:10 – 15:30	Atypical and complex aneurysms: endovascular management	S. Peschillo
15:30 – 15:50	Comparison of stents used for endovascular treatment of intracranial aneurysms	C. Iosif
15:50 – 16:10	Cavernous aneurysms: destructive vs reconstructive approach	F. Massari
16:10 – 16:30	DISCUSSION	

### July 9<sup>th</sup>, 2024 (on-line) – Brain AVMs

TIME	TITLE	SPEAKER
13:00 – 13:30	Special Lecture	M. M. Fontanella
14:00 – 14:30	Hemodynamics of Brain AVMs	S. Tola
14:30 – 15:00	Imaging for pial AVMs and AVFs: how I assess angioarchitecture	E. Orrù
15:00 – 15:30	Current management strategy for unruptured brain AVM	C. Sturiale
15:30 – 16:00	Ruptured brain AVMs: how to manage?	S. Tola
16:00 – 16:30	Transvenous Curative Embolization of Cerebral Arteriovenous Malformations	C. Iosif
16:30 – 17:00	Microsurgical excision of brain AVM in eloquent area	G. Pavesi
17:00 – 17:30	Molecular biology of AVMs	R. Pérez-Alfayate
17:30 – 18:00	DISCUSSION	

### September 10<sup>th</sup>, 2024 (on-line) – Brain DAVFs

TIME	TITLE	SPEAKER
13:00 – 13:30	Special Lecture	Yong-Sam Shin
14:30 – 15:00	Complex DAVF from an endovascular point of view	S. Peschillo
15:00 – 15:30	Complex DAVF from a microsurgery point of view	L. Tosatto
15:30 – 16:00	Management of spinal DAVF	M. Miscusi
16:00 – 16:30	Ethmoidal dural fistula. Endovascular and microsurgical approaches	D. Cannizzaro
16:30 – 17:00	Cavernous sinus DAVF: how to manage	E. Raz
17:00 – 17:30	DAVF embolization: trans-arterial or trans-venous?	F. Diana
17:30 – 18:00	DISCUSSION	

### October 1<sup>th</sup>, 2024 (on-line) – Spinal AVMs and AVFs

TIME	TITLE	SPEAKER
14:00 – 14:30	Special Lecture	J. Mura
14:30 – 15:00	Applied spinal angiographic anatomy	E. Raz
15:00 – 15:30	Anatomy and classification of spinal AVMs	S. Peschillo
15:30 – 16:00	Treatment of complex spinal vascular lesions	P. Ferroli
16:00 – 16:30	Spinal AVFs and AVMs: endovascular treatment	L. Valvassori
16:30 – 17:00	Surgical management of spinal AVFs	F. Signorelli
17:00 – 17:30	Surgical management of spinal AVMs	F. Signorelli
17:00 – 17:30	DISCUSSION	



## European Vascular and Endovascular Neurosurgery Master Study Program

### November 5<sup>th</sup>, 2024 (on-line) – Focus on

TIME	TITLE	SPEAKER
14:00 – 14:30	Special Lecture	E. Kasper
14:30 – 15:00	By-pass technique and revascularization in Moya-Moya	D. Bervini
15:00 – 15:30	Cavernoma: How to deal with it	V. Rohde
15:30 – 16:00	Machine Learning for cerebral vascular pathologies	P. Lopez Ojeda
16:00 – 16:30	Middle meningeal artery embolization for chronic subdural hematomas	E. Orrù
16:30 – 17:00	Update on common pediatric neurointerventional procedures	T.B.D
17:00 – 17:30	Radiosurgery in Vascular pathologies	A. Conti
17:30 – 18:00	DISCUSSION	

### December 3<sup>th</sup>, 2024 (on-line) – Focus on

TIME	TITLE	SPEAKER
14:00 – 14:30	Special Lecture	A. Tomasello
14:30 – 15:00	Review of the literature: Clipping versus coiling for ruptured MCA aneurysm associated with intracerebral hematoma requiring surgical decompression	G. Catapano
15:00 – 15:30	Trans-arterial tumors embolization techniques	E. Orrù
15:30 – 16:00	Hemodynamic of intracranial aneurysms	D. Cannizzaro
16:00 – 16:30	Vessel closure devices: which should we use?	F. Diana
16:30 – 17:00	Endovascular shunting	P. Lylyc
17:00 – 17:30	DISCUSSION	

### January 7<sup>th</sup>, 2025 (on-line) – Venous sinus diseases

TIME	TITLE	SPEAKER
14:00 – 14:30	Special Lecture	P. Jabbour
14:30 – 15:00	Pathophysiology, imaging of cerebral venous thrombosis	F. Massari
15:00 – 15:30	Treatment of cerebral venous sinus thrombosis	E. Orrù
15:30 – 16:00	Intracranial Hypertension and Hypotension: the diagnostic workup	G. Lanzino
16:00 – 16:30	Idiopathic intracranial hypertension: role of venous stenting	G. Lanzino
16:30 – 17:00	Spontaneous intracranial hypotension: the CSF venous fistula	G. Lanzino
17:00 – 17:30	DISCUSSION	

### January 21<sup>d</sup>, 2025 (on-line) – Focus on

TIME	TITLE	SPEAKER
13:00 – 13:30	Special Lecture	I.S. Florian
14:00 – 14:30	Anti-platelets in neuro-interventions	F. Diana
14:30 – 15:00	B.O.T. – methods for evaluating parent vessel sacrifice	M. Shapiro
15:00 – 15:30	Stent assisted coiling for ruptured intracranial aneurysms	S. Yoshimura
15:30 – 16:00	Stents and stent design: how to choose the one you need	S. Peschillo
16:00 – 16:30	Management of giant aneurysms: an endovascular and surgical point of view	J.K. Burkhardt
16:30 – 17:00	Clipping of aneurysms previously treated with EVT: when it is feasible?	A. Gruber
17:00 – 17:30	Aneurysmal SAH: diagnosis and management	S. Tola
17:30 – 18:00	DISCUSSION	



## European Vascular and Endovascular Neurosurgery Master Study Program

February 4 <sup>th</sup> , 2025 (on-line) - Stroke		
TIME	TITLE	SPEAKER
14:00 – 14:30	Special Lecture	B. Xu
14:30 – 15:00	Clinical evaluation of Stroke patients	A. Stefani
15:00 – 15:30	Patients' selection for thrombectomy: the perfusion imaging dilemma	F. Massari
15:30 – 16:00	Mechanical thrombectomy: how to increase the TICI score?	E. Orrù
16:00 – 16:30	Intracranial stenosis and dissections; when to intervene	E. Raz
16:30 – 17:00	Management of extra-cranial artery dissection	N. Velinov
17:00 – 17:30	Tandem lesions: How to manage	F. Diana
17:30 – 18:00	DISCUSSION	

February 11 <sup>th</sup> , 2025 (on-line) - Stroke		
TIME	TITLE	SPEAKER
14:00 – 14:30	Special Lecture	G. Lanzino
14:30 – 15:00	Analysis and meta-analysis of thrombectomy stroke trials	L. Valvassori
15:00 – 15:30	Management of complications during thrombectomy	S. Peschillo
15:30 – 16:00	Low NIHSS: LVO vs MeVo	V. Civelli
16:00 – 16:30	My approach to distal (A, M, P 2,3,4) occlusions?	V. Civelli
16:30 – 17:00	Strokectomy for malignant MCA infarction	C. Bortolotti
17:00 – 18:00	DISCUSSION	

February 25 <sup>th</sup> , 2025 (on-line) – Focus on		
TIME	TITLE	SPEAKER
14:00 – 14:30	Special Lecture	P. P. Peruzzi
14:30 – 15:00	Optimal timing and functional outcome of ventriculoperitoneal shunt placement in hydrocephalus after aneurysmal subarachnoid hemorrhage	A. Cardia
15:00 – 15:30	Impact of cisternostomy and cisternal drain on delayed hydrocephalus after aneurysmal subarachnoid hemorrhage	G. Pavesi
15:30 – 16:00	Utilizing 3D exoscopes is non-inferior to operative microscopes in aneurysm surgery	M. Cenzato
16:00 – 16:30	Microscope-assisted ICG video angiography in cerebrovascular surgery	D. Bervini
16:30 – 17:00	The ARUBA trial	M. Cenzato
17:00 – 17:30	Indications for treatment of tiny aneurysms	C. Bortolotti
17:30 – 18:00	Special Lecture	H. Desal
18:00 – 18:30	DISCUSSION	



## European Vascular and Endovascular Neurosurgery Master Study Program

### SPECIAL LECTURES PROGRAMME

#### 04/04/2024 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

HOW TO IMPROVE WORLDWIDE EDUCATION IN NEUROSURGERY

F. Servadei

#### 14/05/2024 – ON-LINE – SPECIAL LECTURES

13:00 – 13:30

IMAGING ANATOMY OF THE PERFORATING ARTERIES OF THE BRAIN.

S. Takahashi

#### 06/06/2024 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

CHOICE OF APPROACH, SURGICAL NUANCES, PEARL AND PITFALLS FOR ACOM ANEURYSMS

A. Raco

#### 09/07/2024 – ON-LINE – SPECIAL LECTURES

13:00 – 13:30

THE DOUBLE ROLE OF NEUROSURGEON AND EDITOR IN CHIEF OF AN INTERNATIONAL JOURNAL

M.M. Fontanella

#### 10/09/2024 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

BLISTER-LIKE ANEURYSMS, SURGICAL AND ENDOVASCULAR APPROACHES

Yong-Sam Shin

#### 05/02/2025 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

T.B.D.

H. Desal

#### 01/10/2024 – ON-LINE – SPECIAL LECTURES

14:00 – 14:45

MIPLATTA APPROACH FOR COMPLEX ANEURYSMS

J. Mura

#### XXXXXXX – ON-LINE – SPECIAL LECTURES

14:00 – 14:45

T.B.D.

M. Lehecka





## European Vascular and Endovascular Neurosurgery Master Study Program

### 05/11/2024 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

HYPERVASCULAR BRAIN TUMORS - THE ROLE OF ANGIOGRAPHY AND EMBOLIZATION

E. Kasper

### 03/12/2024 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

ROBOTICS IN NEUROENDOVASCULAR PROCEDURES

A. Tomasello

### 07/01/2025 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

RADIAL ACCESS FOR NEUROENDOVASCULAR APPROACHES

P. Jabbour

### 21/01/2025 – ON-LINE – SPECIAL LECTURES

13:00 – 13:30

COMPLICATIONS OF BRAIN AVM SURGERY

I.S. Florian

### 04/02/2025 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

HOW TO IMPROVE THE BY-PASS TECHNIQUES

B. Xu

### 18/02/2025 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

CAVERNOUS MALFORMATIONS OF THE BRAIN AND SPINAL CORD

G. Lanzino

### 25/02/2025 – ON-LINE – SPECIAL LECTURES

14:00 – 14:30

NEW METHODS OF TREATMENT OF GBM: VIRAL THERAPIES, NANOPARTICLES AND SUPERSELECTIVE ENDOVASCULAR TREATMENT:

P. P. Peruzzi



## European Vascular and Endovascular Neurosurgery Master Study Program

### HANDS-ON PART PROGRAM

**Venue:** Unicamillus – Via di Sant’Alessandro, 8 - Rome

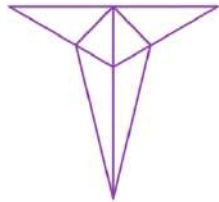
June, 6 <sup>h</sup> 2024		
TIME	TITLE	TUTORS
08:30 - 09:30	<b>Exercise</b> – Endovascular simulator	
09:30 – 13:00	<b>Exercise</b> – By-pass on vascular models and Takayama fake tubes <b>Exercise</b> – Clipping on models	S. Peschillo F. Acerbi
13:00– 14:00	LIGHT LUNCH	
14:00 – 18:00	<b>Exercise</b> – Endovascular simulator <b>Exercise</b> – By-pass on vascular models and Takayama fake tubes <b>Exercise</b> – Clipping on models	F. Diana F. Acerbi
18:00	Wrap-up	

November, 22 <sup>th</sup> 2024		
TIME	TITLE	TUTORS
08:30 - 09:30	<b>Exercise</b> – Endovascular simulator	
09:30 – 13:00	<b>Exercise</b> – By-pass on vascular models and Takayama fake tubes <b>Exercise</b> – Clipping on models	F. Puccinelli G. Catapano
13:00– 14:00	LIGHT LUNCH	
14:00 – 18:00	<b>Exercise</b> – Endovascular simulator <b>Exercise</b> – By-pass on vascular models and Takayama fake tubes <b>Exercise</b> – Clipping on models	F. Signorelli
18:00	Wrap-up	



# European Vascular and Endovascular Neurosurgery Master Study Program

with the unrestricted support of:



TAKAYAMA INSTRUMENT



Seeing beyond



UNICAMILLUS

European **Vascular** and **Endovascular Neurosurgery**  
Master Study Program

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