

# TEACHING COURSE

21-25 March, 2022  
Moscow, Russia



**RENS**

RUSSIAN ENDOVASCULAR  
NEURO SOCIETY



**ESMINT**

European Society of  
Minimally Invasive Neurological Therapy

## TREATMENT OF PATIENTS WITH ARTERIOVENOUS MALFORMATIONS



НМИЦ  
НЕЙРОХИРУРГИИ  
ИМЕНИ АКАДЕМИКА  
Н.Н. БУРДЕНКО





## SPEAKERS:

**Kirill Yu. Orlov**, PhD, Head, Research Center of Endovascular Neurosurgery, Federal Center of Brain and Neuro Technologies, Director, Russian Endovascular Neuro Society (Moscow, Russia)

**Sergey B. Yakovlev**, Doctor of Sciences (Medicine), Head, 4<sup>th</sup> Neurosurgery Department, Burdenko National Medical Research Center of Neurosurgery (Moscow, Russia)

**Dmitry V. Kandyba**, PhD, Deputy Director, Dzhanelidze Research Institute of Emergency Medicine, Board Member of Russian Endovascular Neuro Society (Saint Petersburg, Russia)

**Aleksandr V. Savello**, Doctor of Sciences (Medicine), Deputy Head, Department of Neurosurgery, Military Medical Academy named after SM Kirov, Board Member of Russian Endovascular Neuro Society (Saint Petersburg, Russia)

**Mikhail Yu. Volodyukhin**, Doctor of Sciences (Medicine), Head of Roentgen Surgery Department, Interregional clinical diagnostic Center, Board Member of Russian Endovascular Neuro Society (Kazan, Russia)

**Laurent Pierot**, Professor of Radiology, Faculty of Medicine, Head of the Department of Radiology, University Hospital, Hôpital Maison-Blanch, Associate Editor of Journal of Neuroradiology, Section Editor (Interventional Radiology) of Stroke Journal, Member of the Editorial Board of AJNR Reviewer of Neurosurgery Journal (Reims, France)

**Laurent Spelle**, Professor of Neuroradiology & Chairman, NEURI, Brain Vascular Center, pediatric & adult, Bicêtre Hospital - Paris Sud University, co-organizer of the LINNC, Executive Committee member and Multipisciplinary Committee Chairman of ESMINT (Paris, France)

**Anne-Christine Januel**, MD, Senior interventional neuroradiologist of University Hospital, Treasurer of ESMINT (Toulouse, France)



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# Monday, 21 March, 2022

Moderators: Kirill Orlov, Alexander Savello

08:00-09:00	Registration	
09:00-09:30	Welcome greetings	
09:30-10:00	<b>Cerebral AVMs: etiology and pathogenesis</b>	Speaker:
10:00-10:30	<b>Embryology of cerebral malformations</b>	Speaker:
10:30-11:00	<b>Diagnostics of cerebral AVMs</b>	Speaker:
11:00-11:30	<b>AVM shapes and localizations: classification principles</b>	Speaker:
11:30-12:00	Break	
12:00-12:30	<b>Scientific rationale of AVM treatment: key studies</b>	Speaker:
12:30-13:00	<b>Principles of endovascular AVM treatment: basic principles</b>	Speaker:
13:00-13:30	<b>Principles of microsurgical AVM treatment Microsurgery after embolization: features</b>	Speaker:
13:30-14:00	<b>Principles of radiosurgical AVM treatment Radiosurgery after embolization: features</b>	Speaker:
14:00-14:30	<b>Multimodal AVM treatment</b>	Speaker:
14:30-15:30	Tutorial 1 (Alexander Savello) Tutorial 2 (Laurent Spelle) Tutorial 3	
15:30-16:00	Quiz 1	



# Tuesday, 22 March, 2022

Moderators: Kirill Orlov, Mikhail Volodyukhin

09:00-09:30	<b>What AVMs are NOT to be treated? AVM patient follow-up</b>	Speaker:
09:30-10:00	<b>Spetzler-Martin I – II AVMs: treatment modalities</b>	Speaker:
10:00-10:30	<b>Spetzler-Martin III – IV AVMs: treatment modalities</b>	Speaker:
10:30-11:00	<b>Spetzler-Martin V AVMs: treatment modalities</b>	Speaker:
11:00-11:30	<b>High-flow shunts in AVMs: treatment principles</b>	Speaker:
11:30-11:40	<b>Treatment of flow aneurysms on AVM-feeding vessels</b>	Speaker:
11:40-12:00	Break	
12:00-13:00	Tutorial 4 (Mikhail Volodyukhin)	
13:00-13:30	Quiz 2	



# Wednesday, 23 March, 2022

Moderators: Kirill Orlov, Laurent Pierot

09:00-09:30	<b>VG AVMs: etiology, epidemiology and pathogenesis</b>	Speaker:
09:30-10:00	<b>VG AVMs in the newborn: to treat or not to treat?</b>	Speaker:
10:00-10:30	<b>VG AVMs: treatment principles</b>	Speaker:
10:30-11:00	<b>Cerebral AVMs in children: treatment features</b>	Speaker:
11:00-11:30	Break	
11:30-12:00	<b>Venous approach in AVM treatment. Staged transvenous treatment.</b>	Speaker:
12:00-12:30	<b>Porcelain vein in AVM treatment</b>	Speaker:
12:30-12:40	<b>Pressure cooking technique in AVM treatment</b>	Speaker:
12:40-13:10	<b>Complications after endovascular AVM treatment: treatment and prevention</b>	Speaker:
13:10-14:10	Tutorial 5 Tutorial 6 Tutorial 7 (Laurent Pierot)	
14:10-14:40	Quiz 3	



# Thursday, 24 March, 2022

Moderators: Kirill Yu Orlov, Dmitry Kandyba

09:00-09:30	<b>Adhesive composites in endovascular treatment of cerebral AVMs, combined embolic agents</b>	Speaker:
09:30-10:00	<b>Nonadhesive composites in endovascular treatment of cerebral AVMs. Combined nonadhesive embolic agents.</b>	Speaker:
10:00-10:30	<b>Microcatheters with detachable and nondetachable distal part</b>	Speaker:
10:30-11:00	<b>Endovascular AVM treatment: perspective tools. 3D and 4D imaging for AVM diagnostics and treatment</b>	Speaker:
11:00-11:30	Break	
11:30-12:00	<b>A medical center for effective AVM treatment: equipment, tools and surgical teams</b>	Speaker:
12:00-12:30	<b>Pial arteriovenous fistulae: clinical manifestations, diagnostics and treatment</b>	Speaker:
12:30-13:00	<b>Scalp AVFs: clinical manifestations, diagnostics and treatment</b>	Speaker:
13:00-14:00	Tutorial 8 Tutorial 9 Tutorial 10 Tutorial 11 (Anne-Christine Januel)	
14:00-14:30	Quiz 4	



# Friday, 25 March, 2022

Moderators: Kirill Orlov, Sergey Yakovlev

09:00-09:30	<b>Brain dAVFs: classification and clinical presentation</b>	Speaker:
09:30-10:00	<b>Lateral sinus dAVFs: clinical manifestations, diagnostics and treatment</b>	Speaker:
10:00-10:30	<b>Cavernous sinus dAVFs: clinical manifestations, diagnostics and treatment</b>	Speaker:
10:30-11:00	<b>Posterior fossa dAVFs: clinical manifestations, diagnostics and treatment</b>	Speaker:
11:00-11:30	Break	
11:30-12:00	<b>Cognard Type V dAVFs: clinical manifestations, diagnostics and treatment</b>	Speaker:
12:00-12:30	<b>Superior sagittal sinus dAVFs: clinical manifestations, diagnostics and treatment</b>	Speaker:
12:30-13:30	Tutorial 12 (Sergey Yakovlev) Tutorial 13 (Alexander Savello)	
13:30-14:30	Final quiz	
14:30-15:00	Break	
15:00-15:30	Quiz answers. Certificates awarding	Pr Laurent Pierot
	Feedback and Update on RENS activities	Dr Kirill Orlov Dr Anne Christine Januel





## Tutorials:

1. ....

Tutor: Alexander Savello

2. ....

Tutor: Laurent Spelle

3. ....

Tutor: Kirill Orlov

4. ....

Tutor: Mikhail Volodyukhin

5. ....

Tutor:

6. ....

Tutor:

7. ....

Tutor: Laurent Pierot

8. ....

Tutor:

9. ....

Tutor: Dmitry Kandyba

10. ....

Tutor:

11. ....

Tutor: Anne-Christine Januel

12. ....

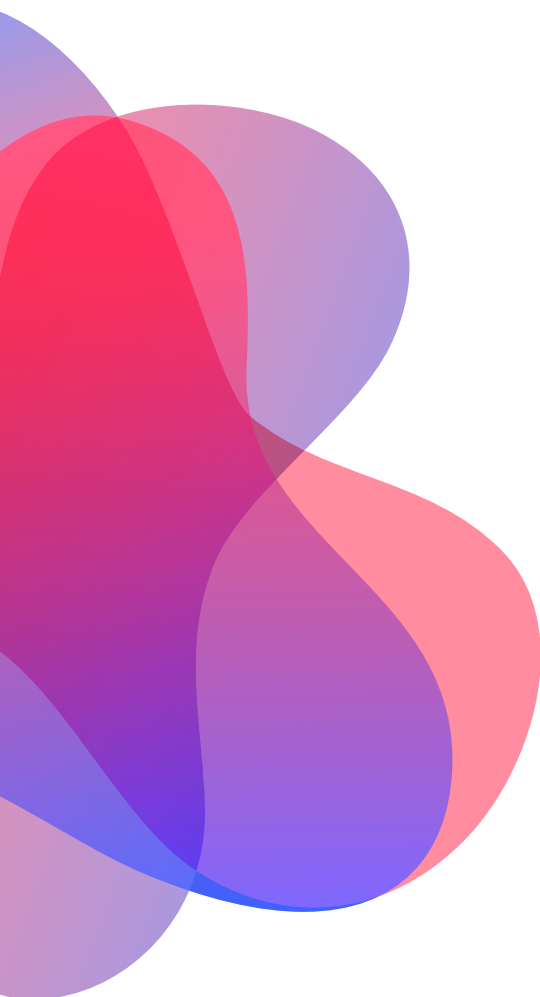
Tutor: Sergey Yakovlev

13. ....

Tutor: Alexander Savello







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