

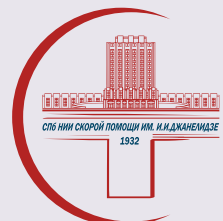
# TEACHING COURSE

## CEREBRAL ANEURYSMS TREATMENT



Monday 18<sup>th</sup> November  
to Friday 22<sup>nd</sup> November 2019

Dzhanelidze Institute, Saint Petersburg





## Speakers:

**Kirill Yu. Orlov**, PhD, Head, Neurosurgery center, Meshalkin Medical National Research Center, (Novosibirsk, Russia)

**Laurent Pierot**, Professor, Service de Neuroradiologie, Hôpital Maison-Blanche (Reims, France)

**Laurent Spelle**, MD, PhD, Professor of Neuroradiology & Chairman, NEURI, the Brain Vascular Center, pediatric & adult, Bicêtre Hospital - Paris Sud University (Paris, France)

**Francis Turjman**, MD, professor, chairman of the ESMINT committee for research, Centre Hospitalier Universitaire de Lyon (Lyon, France)

**Edoardo Boccardi**, MD, PhD, professor, Head, Interventional Neuroradiology Department, Niguarda Ca Granda Hospital (Milano, Italy)

**Dmitry V. Kandyba**, PhD, Head, Department of Endovascular Surgery, Dzhanelidze Institute of Emergency Medicine (Saint Petersburg, Russia)

**Aleksandr V. Savello**, Doctor of Sciences (Medicine), Department of Neurosurgery, Almazov National Medical Research Center (Saint Petersburg, Russia)

**Sergey B. Yakovlev**, Doctor of Sciences (Medicine), Head, Burdenko National Scientific and Practical Center for Neurosurgery (Moscow, Russia)

**Dmitry V. Svistov**, PhD, Head, Department of Neurosurgery, Kirov Military Medical Academy, Chief neurosurgeon of the Ministry of Defence of Russia (Saint Petersburg, Russia)

**Anne-Christine Januel**, senior interventional neuroradiologist, University Hospital, President of ESMINT congress 2019 (Toulouse, France)

**Maxim Mokin**, MD, Assistant Professor of Neurology and Neurosurgery, Endovascular Neurosurgery at TGH, University of South Florida (Tampa, USA)

**Mohamed Aggour**, Interventional Neuroradiologist, Associate Editor - Journal Of Neuroradiology - French Society of Neuroradiology (SFNR), Chairman, Publication Executive Committee, European Society of Minimally Invasive Neurological Therapy (ESMINT)

# TOPIC: CEREBRAL ANEURYSMS TREATMENT

**Course Directors:** Kirill Orlov, Laurent Pierot  
**Course Organizers:** Kirill Orlov, Laurent Pierot

**MONDAY, 18 NOVEMBER, 2019**

(DZHANELIDZE LECTURE THEATRE)

11:00-12:00	Registration	
12:00-12:30	Introduction	
12:30-13:15	<b>Cerebral aneurysms: imaging</b> Goal: to consider the modern state of prehospital and hospital cerebral aneurysm diagnostics	Dr Anne-Christine Januel
13:15-14:00	<b>Cerebral aneurysms: epidemiology, clinical presentations, factors affecting the risk of rupture</b> Goal: To familiarize participants with the epidemiology, main clinical manifestations and risks of cerebrovascular aneurysms	Pr Boris Yakovlev
14:00-15:00	<b>Embolization VS clipping: can we compare?</b> Goal: To teach participants on how to perform a scientifically-based selection of surgical tactics for treatment of aneurysms of different localization	Dr Dmitry Kandyba
15:00-16:00	<b>Management of urgent and planned neuro endovascular care in Russia</b> Goal: To familiarize participants with the organization of emergency and elective treatment of cerebral aneurysms	Dr Kirill Orlov
16:00-16:15	Tea/Coffee	
16:15-17:00	<b>Antiplatelet medications in intracranial stenting and flow diversion</b> Goal: To familiarize participants with the antiplatelet medications in intracranial stenting and flow diversion	Dr Maxim Mokin
17:00-17:45	<b>Intracranial multiply aneurysms: frequency, stages treatment</b> (Goal: To familiarize participants with the surgical tactics of treatment of multiple cerebrovascular aneurysms)	Dr Alexander Savello
17:45-18:00	Quiz 1	
18:00-19:00	Dinner	

## TUESDAY, 19 NOVEMBER, 2019

(DZHANELIDZE LECTURE THEATRE)

09:00-10:00	<b>Management of dissected and blister-like aneurysms</b> Goal: To teach participants on how to select optimal tactics for treatment of dissected and blister-like aneurysms	Dr Anne-Christine Januel
10:00-11:00	<b>Stent assisted embolization of cerebral aneurysms</b> Goal: To teach participants the optimal approach to intracranial stenting	Pr Laurent Spelle
11:00-12:00	<b>Follow-up of intracranial aneurysms treated with EVT</b> Goal: To consider the issue of follow-up duration in patients after endovascular treatment	Dr Maxim Mokin
12:00-13:00	Lunch	
13:00-14:00	<b>Cerebral vasospasm: clinical presentation, diagnostic, treatment</b> Goal: To familiarize participants with the modern methods of treatment and diagnostics of cerebral vasospasm	Pr Boris Yakovlev
14:00-14:30	<b>History of endovascular treatment of aneurysms</b> Goal: To familiarize participants with the history of endovascular surgery development	Dr Dmitry Svistov
14:30-15:00	<b>Embryology and angioarchitecture of vessels</b> Goal: To familiarize participants with the surgical anatomy of cerebral vessels in the context of their embryological development	Dr Dmitry Svistov
15:00-15:15	Tea/Coffee	
15:15-16:15	<b>Tutorial 1</b> (auditorium 2) Red –Aud6    Blue–Aud5    Purple–Aud7    Green–Aud8	
16:15-17:15	<b>Tutorial 2</b> (auditorium 1) Red –Aud6    Blue–Aud5    Purple–Aud7    Green–Aud8	
17:15-18:00	Quiz 2	
19:00-20:00	Dinner	

# WEDNESDAY, 20 NOVEMBER, 2019

(DZHANELIDZE LECTURE THEATRE)

09:00-10:00	<b>Endovascular management of giant aneurysms</b> Goal: To broad participants' outlook at treatment of gigantic aneurysms	Pr Francis Turjman
10:00-11:00	<b>Aneurysms treatment in acute period of subarachnoid hemorrhage</b> Goal: To teach participants with aneurysms treatment mode aspects in acute period of subarachnoid hemorrhage	Pr Edoardo Boccardi
11:00-12:00	<b>Special characteristics of cerebral aneurysms in children. Features of different treatment</b> Goal: To familiarize participants with the methods of diagnostics and treatment of cerebral aneurysms in children	Pr Laurent Spelle

12:00-13:00 Lunch

13:00-14:00 **Tutorial 3** (see list below)

Red -Aud6   Blue-Aud5   Purple-Aud7   Green-Aud8

14:00-15:00 **Tutorial 4** (see list below)

Red -Aud6   Blue-Aud5   Purple-Aud7   Green-Aud8

15:00-16:00 **Tutorial 5** (see list below)

Green-Aud8   Red -Aud6   Blue-Aud5   Purple-Aud7

16:00-17:00 **Tutorial 6** (see list below)

Green-Aud8   Red -Aud6   Blue-Aud5   Purple-Aud7

17:00-18:00 Quiz 3

19:00-20:00 Dinner

## THURSDAY, 21 NOVEMBER, 2019

(DZHANELIDZE LECTURE THEATRE)

09:00-10:00	<b>Features of different types of intracranial stents</b> Goal: To familiarize participants with cerebral stents of different types	Pr Laurent Spelle
10:00-11:00	<b>Treatment of aneurysms with intraaneurysmal flow disrupters</b> Goal: To familiarize participants with cerebral stents of different types	Pr Laurent Pierot
11:00-12:00	<b>Remodeling technique</b> Goal: To familiarize participants with the complex approach to cerebral aneurism treatment in the context of cerebral blood flow regulation	Pr Laurent Spelle
12:00-13:00	Lunch	
13:00-14:00	<b>Deconstructive cerebrovascular surgery: historical background and nowadays indications</b> Goal: To familiarize participants with the history of cerebral aneurysm occlusion technique and its current applications	Pr Dmitry Svistov
14:00-15:00	<b>Intraoperative complications of endovascular treatment of aneurysms: preventive measures, controlling methods</b> Goal: To teach participants on how to prevent and correct possible complications of the cerebral aneurysms treated endovascularly	Dr Kirill Orlov
15:00-16:00	<b>Flow diverter technologies</b> Goal: To familiarize participants with the historical, technical and practical features of flow diverters	Pr Edoardo Boccardi
16:00-17:00	<b>Flow diverters in the treatment of bifurcation aneurysms</b> Goal: To consider the features of flow diverters when used for treatment of bifurcation aneurysms	Pr Charbel Mounayer
17:00-17:30	Quiz 4	
19:00-20:00	Dinner	

# FRIDAY, 22 NOVEMBER, 2019

(DZHANELIDZE LECTURE THEATRE)

09:00-10:00	<b>Coils in the treatment of intracranial aneurysms</b> Goal: To teach participants the classical microcoil technique and its variations in patients with complex anatomy	Mohamed Aggour
10:00-11:00	<b>Management of unruptured intracranial aneurysms</b> Goal: To teach participants on how to select optimal tactics for treatment of unruptured intracranial aneurysms	Pr Laurent Pierot
11:00-12:00	<b>Management of fusiform and serpentine aneurysms</b> Goal: To teach participants on how to select optimal tactics for treatment of fusiform and serpentine aneurysms	Pr Edoardo Boccardi
12:00-13:00	<b>Which centers are perfect to treat patients: operating rooms equipment (must have) and specialists education</b> Goal: To consider the organization of hospital treatment of cerebral aneurysms in the context of cathlab equipment personnel training	Dr.Mohamed Aggour
13:00-14:00	Lunch	
14:00-15:00	<b>Final Quiz</b>	
15:00-16:00	<b>Quiz answers</b>	Dr Kirill Orlov
16:00-16:30	<b>Feedback and Update on RENS 2020</b>	Dr Kirill Orlov
16:30-17:00	Certificates awarding	Dr Kirill Orlov Pr Laurent Pierot
17:00		Course ends



## TUTORIALS:

1. Features of aneurysms treatment in acute stage of subarachnoid hemorrhage.  
**Maxim Mokin**  
**Goal:** To familiarize participants with the features of aneurysms treatment in acute subarachnoid hemorrhage
2. Endovascular treatment of cerebral aneurysms in children.  
**Anne-Christine Januel**  
**Goal:** To discuss endovascular treatment of cerebral aneurysms in children
3. How to Treat Complications Related to Endovascular Treatment of Aneurysms.  
**Laurent Pierot**  
**Goal:** To teach participants the basic principles of treatment of typical complications after endovascular treatment of cerebral aneurysms
4. Flow diverters in treatment of posterior circulation aneurysms.  
**Kirill Orlov**  
**Goal:** To teach participants the basic principles of effective flow-diversion in treatment of posterior circulation aneurysms
5. Flow diversion devices in treatment of anterior circulation aneurysms.  
**Edoardo Boccardi**  
**Goal:** To teach participants the basic principles of effective flow-diversion in treatment of anterior circulation aneurysms
6. What to do with small and unruptured aneurysms: aggressive endovascular tactics vs observation?  
**Laurent Spelle**  
**Goal:** To discuss approaches to treatment of small and unruptured aneurysms
7. Perioperative and postoperative patient's management.  
**Boris Yakovlev**  
**Goal:** To discuss perioperative and postoperative management of acute and non acute SAH patients
8. How to Avoid Complications in Endovascular Treatment of Aneurysms.  
**Francis Turjman**  
**Goal:** To teach participants on how to minimize the risks of typical complications after endovascular treatment of cerebral aneurysms

9. Selection of endovascular approach in patients with tortuous vessels (radial, femoral, distal approaches).

**Dmitry Svistov**

**Goal:** To discuss on how to select an optimal endovascular approach in patients with tortuous vessels

10. Endovascular treatment of cerebral aneurysms in terms of insufficient devices providing.

**Dmitry Kandyba**

**Goal:** To discuss the features of endovascular treatment of cerebral aneurysms in absence of sufficient financial and material support

11. How to treat distal aneurysms: embolization or microsurgery?

**Alexander Savello**

**Goal:** To discuss a way of selecting between embolization and clipping for treatment of distal cerebral aneurysms

12. Choosing of optimal assisted methods of endovascular treatment of wide neck aneurysms: balloon vs stents.

**Mohamed Aggour**

**Goal:** To teach participants on how to perform on optimal assisted technique (balloon or stent) for endovascular treatment of wide neck aneurysms



***Cardiomedics***