



# World Federation of Interventional and Therapeutic Neuroradiology

## WFITN Course on Neurovascular Anatomy COURSE Beirut , Lebanon, July 22<sup>rd</sup>-25<sup>th</sup>, 2018

Faculty:

Sirintara Pongpech, Thailand  
In Sup Choi, South Korea  
Michel Mawad, Lebanon

Karel terBrugge, Canada  
Kittipong Srivatanakul, Japan  
Philippe Mercier, France

### ANATOMY OF THE NEUROVASCULAR SYSTEM

#### 1<sup>ST</sup> DAY Sunday, July, 22<sup>rd</sup>, 2018

08:00-08:15 Welcome and introduction (*S. Pongpech, M. Mawad*)

08:15-08.45 Vasculogenesis, Angiogenesis (*K.Terbrugge*)

08:45-09.15 The arteries and veins of the brain evolution in different species, general remarks *P Mercier*

09:15-09:45 Development of the aortic arch and its brachiocephalic vessels; *IS Choi*

09.45-10.15 Segmentation and Embryonic vessels (*IS Choi*)

10.15-10.45 Morning break

10.45-11.15 Opht. Arteries and orbital supply, angioanatomy (*K.Srivatanakul*)

11.15-11.45 Surgical anatomy of the orbit. *P.Mercier*

11:45-13:00 Lunch

13.00-13.30 Cavernous sinus arterial anatomy and variations (*IS Choi*)

13.30-14.00 Cavernous sinus surgical anatomy (*P.Mercier*)

14.00-14.30 VB junction, hypoglossal, pro-atlantal (*S.Pongpech*)

14.30-15.00 PICA origins; (*S.Pongpech*)

15:00-15:30 Afternoon break

15.30-16.00 Surgical anatomy cranio-cervical- area (*P Mercier*)

16.00-16.30 Limbic circle and PCA (*K TerBrugge*)

16.30-17.00 Anterior choroidal artery (*K.Srivatanakul*)

17.00-17.30 Surgical anatomy anterior choroidal artery; *P. Mercier*



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## **2<sup>ND</sup> DAY Monday July 23<sup>th</sup>, 2018**

08.00-08.30 Angio-anatomy circle of Willis (*K Terbrugge*)  
08.30-09.00 Surgical anatomy circle of Willis (*P.Mercier*)  
09.00-09.30 Variation ACA and MCA territories (*K.Srivatanakul*)  
09.30-10.00 Surgical anatomy A1 and M1 segments (*P Mercier*)

10.00-10.30 Morning break

10.30-11.00 Noninvasive imaging of arterial variations (*K terBrugge*)  
11.00-11.30 Upper basilar variations (*K terbrugge*)  
11.30-12.00 Upper basilar surgical anatomy (*P Mercier*)

12.00-13.00 Lunch

13.00-13.30 External carotid artery, embryology (*IS Choi*)  
13.30-14.00 Skull base and cranial nerve arterial supply (*K.Srivatanakul*)  
14.00-14.30 Dangerous Extra to Intracranial anastomoses : (*M Mawad*)

14.30-15.00 Afternoon break

15.00-15.30 Cerebral venous system and dural sinuses (*K.Srivatanakul*)  
15.30-16.00 Intracranial veins surgical anatomy (*P Mercier*)  
16.00-16.30 DVA and sinus pericranii (*K Terbrugge*)  
16.30-17.00 Venous vascular injury (*K Terbrugge*)

## **3<sup>RD</sup> DAY , Tuesday July 24<sup>th</sup>, 2018**

08.00-08.30 Natural history and clinical presentation of adult DAVSs (*K Terbrugge*)  
08.30-09.00 Transarterial treatment of DAVSs; (*M Mawad*)  
09.00-09.30 Transvenous treatment of DAVSs, indications, outcome (*K.Srivatanakul*)

09.30-10.00 Morning break

10.00-10.30 Surgical and Radiosurgical treatment DAVSs (*K Srivatanakul*)  
10.30-11.00 CCF shunts (*S Pongpech*)  
11.00-11.30 Head and neck vascular injury (*S.Pongpech*)



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11.30-12.30 Lunch

12.30-13.00 Vascular lesions and syndromes in children (*S Pongpech*)

13.00-13.30 HHT of the CNS in children (*K Terbrugge*)

13.30-14.00 Dural AVS in children (*K terBrugge*)

14.00- 14.30 Afternoon break

14.30-15.00 Vein of Galen malformations (*S Pongpech*)

15.00-15.30 Aneurysms in children (*K Terbrugge*)

## **4<sup>th</sup> DAY, Wednesday July 25<sup>th</sup>, 2018**

08.00-08.30 Angio-vascular anatomy spine and spinal cord (*S.Pongpech*)

08.30-09.00 Surgical vascular anatomy spinal cord; (*P Mercier*)

09.00-09.30 Classification and imaging of spinal vascular lesions (*S Pongpech*)

09.30-10.00 Morning break

10.00-10.30 SCAVM presentation, natural history and management (*S Pongpech*)

10.30-11.00 Paraspinal AVSs, imaging and management (*K Terbrugge*)

11.00-11.30 Spinal dural AVSs, endovascular and surgical management (*K Srivatanakul*)

11.30-12.00 Intra and axtra dural vascular tumors of the spine, endovascular management (*IS Choi*)

12.00-12.30 Self Evaluation Test

12.30-13.30 Lunch

Adjourn