







COURSE DIRECTORS





Jacques MORET

Laurent SPELLE



EDITORIAL

Dear Colleagues,

Welcome to LINNC Paris 2019 – the world's premiere course in Interventional Neuroradiology & Neurosurgery open to all dedicated specialists interested in the endovascular treatment of neurological disease today.

In our rapidly evolving specialty, the reputation of LINNC cannot rest on our past accomplishments alone, but on our ability to re-visit and re-invent ourselves with each new edition. Our new program, which we are presenting here, captures this commitment. This program is the fruit of our experience and offers the quality and innovation you have come to expect from the pioneering LINNC Paris course, allowing us to be inspired, once again, by a discipline whose future is more promising than ever before.

To continue to advance together, the current program encompasses three critical axes – **Live Centers, New Technologies and Education.** The aim, as in previous LINNC Paris courses, is to **provide an open forum for the exchange of ideas, allowing participants to easily share experience with world-renown experts** while, at the same time, providing a series of quality "take-home" messages that can have an immediate impact on your practice. To create a "living" program requires that we work from one LINNC Paris to the next, and brings together the expertise of the Editorial Board and Course Directors as well as your own invaluable input when you participate on LINNC online or at any one of the other LINNC family courses, such as the increasingly successful LINNC Seminar Americas Edition and Asia Edition.

It is thanks to these collective efforts that LINNC Paris 2019 will continue to grow, offering our special mix of finely tuned pedagogy – **open and interactive, reactive and flexible** – that permits the well-known "LINNC" between us all, our experience and our clinical knowledge. Today, the boundaries of our specialty are growing. This program represents far more than the few days spent together in Paris, but captures the very heart of the LINNC philosophy, **a philosophy founded on coming together to share what we know and have learned through our different experience in order to improve the treatment we offer and benefit all our patients.**

We wish you an excellent LINNC Paris 2019!

FACULTY



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LINNC 2019 LIVE CENTERS

Paris, France

Team managed by Jacques Moret & Laurent Spelle NEURI The Brain Vascular Center - Bicêtre Hospital Paris Saclay University

Toronto, Canada

Team managed by Vitor Mendes Pereira and Timo Krings University Health Network, University of Toronto

Santiago de Chile, Chile

Team managed by Rodrigo Rivera Instituto de Neurocirugia Dr Asenjo









Beijing, China

New Delhi, India

Team managed by Honggi Zhang

Team managed by Vipul Gupta

Artemis Hospital Gurgaon

Xuan Wu Hospital, Capital Medical University





LEARNING OBJECTIVES

LEARNING OBJECTIVES

Upon completion of this activity, the learner should be able to:

- Describe the indications of treatment for aneurysms, AVMs, specific AVMs such as of those of the marrow (spine and spinal cord), spinal dural AVMs; the management of complications, cerebral stroke, and also on percutaneous techniques and balance the beneficial outcomes from treatment procedures, endovascular or surgical, against the natural history of the disease.
- Demonstrate the high-quality practice of interventional neuroradiology and neurosurgery in a team environment.
- Review information regarding basic and clinical research in diseases, including techniques and technologies of interventional neuroradiology and neurosurgery.
- Explain the role of imaging in the diagnosis and management of those neurovascular disorders.

EDUCATIONAL METHODS

- Lectures Question and Answer Sessions Live case transmissions
- Recorded cases
 Round Table Discussions
- Audiovisual Presentations

ACCREDITATION



The LINNC PARIS 2019, Paris, France, 03/06/19 - 05/06/19 has been accredited by the European Accreditation council for Continuing Medical Education (EACCME®) with 18 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 CreditsTM. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-creditparticipation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

EthicalMedTech LINNC 2019 is compliant with the Eucomed Code of Ethical Business Practice.

	Monday, June 3, 2019	Tuesday, June 4, 2019	Wednesday, June 5, 2019
8:00	Day 1 & 2: Neurovas	cular Malformations	Day 3: Stroke Management
8:15	KEYNOTE LECTURE	KEYNOTE LECTURE	KEYNOTE LECTURES
8:30		range [®]	RETNOTE LECTURES
8:50	New Delhi, India Artemis Hospital Gurgaon Team managed by Vipul Gupta	LIVE Live Cases Transmission Beijing, China Xuan Wu Hospital, Capital Medical University Team managed by Hongqi Zhang	RECORDED Recorded Case Stroke in live conditions Bicêtre University Hospital
9:00		ream managea 27 nongqmang	KEYNOTE LECTURE
9:05 9:30	LIVE Cases Transmission Paris, France Bicêtre University Hospital Team managed by Jacques Moret	LIVE Live Cases Transmission Paris, France Bicêtre University Hospital Team managed by Jacques Moret	Recorded Case Stroke in live conditions Bicêtre University Hospital
	and Laurent Spelle	and Laurent Spelle	KEYNOTE LECTURE
9:45		Coffee break & Visit of the exhibition area	
10:15			
10:45	New Delhi, India Artemis Hospital Gurgaon Team managed by Vipul Gupta	LIVE Live Cases Transmission Beijing, China Xuan Wu Hospital, Capital Medical University	Recorded Case Stroke in live conditions Bicêtre University Hospital
11:00		Team managed by Hongqi Zhang	KEYNOTE LECTURE
11:30	Industry-sponsored Symposium	Industry-sponsored Symposium	Industry-sponsored Symposium
12:00	LINNC Conference cycle	LINNC Conference cycle	Recorded Case Stroke in live conditions Bicêtre University Hospital
12:15		*	KEYNOTE LECTURE
12:45	Paris, France Bicêtre University Hospital Team managed by Jacques Moret and Laurent Spelle	Paris, France Brickre University Hospital Team managed by Jacques Moret and Laurent Spelle	Recorded Case Stroke in live conditions Bicêtre University Hospital
		Lunch break in the exhibition area	
13:30	Industry-sponsored Symposium	Industry-sponsored Symposium	
14:15			
15:00	Live Cases Transmission Toronto, Canada University Health Network, Univ. of Toronto Team managed by Vitor Mendes Pereira and Timo Krings	LIVE Live Cases Transmission Paris, France Bicêtre University Hospital Team managed by Jacques Moret and Laurent Spelle	Round table on cases discussions submitted by
15:45	Live Cases Transmission Paris, France Bicêtre University Hospital Team managed by Jacques Moret and Laurent Spelle	Santiago de Chile, Chile Instituto de Neurocirugia Dr Ansenjo Team managed by Rodrigo Rivera	LINNC online members
16:00		Industry-sponsored Symposium	
16:15	Industry-sponsored Symposium		Follow-up of LINNC 2018 cases
16:30	Coffee break & Visit of the exhibition area	Coffee break & Visit of the exhibition area	Best case submitted Award Ceremony
17.00	Conse bleak & visit of the exhibition died	LIVE Live Cases Transmission Paris, France	Closing remarks
17:00	LIVE Live Cases Transmission	Bicêtre University Hospital Team managed by Jacques Moret	
17:15	Toronto, Canada University Health Network, Univ. of Toronto Team managed by Vitor Mendes Pereira	and Laurent Spelle	
17:30	and Timo Krings Live Cases Transmission	Industry-sponsored Symposium	
17:45	Paris, France		
18:00	Bicêtre University Hospital Team managed by Jacques Moret	LIVE Live Cases Transmission Santiago de Chile, Chile	
18:15	and Laurent Spelle LINNC Partners Awards Ceremony	Instituto de Neurocirugia Dr Ansenjo Team managed by Rodrigo Rivera	
18:30	Living Farthers Awards Ceremony		

MONDAY, JUNE 3, 2019

Expert Panel: 8:00 - 9:45

Jacques MORET, Laurent SPELLE, Adam S. ARTHUR, Fady CHARBEL, Giuseppe LANZINO, Uday LIMAYE, Laurent PIEROT, Tomoaki TERADA, Alvin Yichou WANG

KEYNOTE LECTURE	8:00 - 8:15
Y stenting and coiling versus WEB in wide neck bifurcation aneurysms	

based on the literature review. Jildaz CAROFF

Live Case Transmission	8 15 - 9:00
From: New Delhi, India	LIVE
Artemis Hospital Gurgaon Team managed by Vipul Gupta	LIVE
Live Case Transmission	9:00 - 9:45
From: Paris, France	
Bicêtre University Hospital	LIVE
Team managed by Jacques Moret and Laurent Spelle	

Coffee break & Visit of the exhibition area

9:45 - 10:15

Expert Panel: 10:15 - 12:45

Jacques MORET, Laurent SPELLE, Alejandro BERENSTEIN, Luisa BISCOITO, Vincent COSTALAT, Guilherme DABUS, Michel E MAWAD, Raul G. NOGUEIRA, Tomoaki TERADA

Live Case Transmission From: New Delhi, India Artemis Hospital Gurgaon Team managed by Vipul Gupta	10:15 - 11:00
Industry sponsored Symposium (see page 13)	11:00 - 11:30
LINNC Conference Cycle: Ultrasound localization microscopy of the brain. Olivier COUTURE - CNRS, INSERM, ESPCI, Paris	11:30 - 12:00
Live Case Transmission From: Paris, France Bicêtre University Hospital Team managed by Jacques Moret and Laurent Spelle	12:00 - 12:45

MONDAY, JUNE 3, 2019

Lunch break in the exhibition area

12:45 - 13:30

Industry sponsored Symposium (see page 13)

13:30 - 14:15

Expert Panel: 14:15 - 15:45

Jacques MORET, Laurent SPELLE, Tudor G. JOVIN, Timo KRINGS, Giuseppe LANZINO, Michel E MAWAD, Raul G. NOGUEIRA, Tufail PATANKAR, Sirintara PONGPECH

Live Case Transmission	14:15 - 15:00
From: Toronto, Canada University Health Network, Univ. of Toronto Team managed by Vitor Mendes Pereira and Timo Krings	LIVE
Live Case Transmission	15:00 - 15:45
From: Paris, France Bicêtre University Hospital Team managed by Jacques Moret and Laurent Spelle	LIVE

Industry sponsored Symposium (see page 13) 15:45 - 16:3	0
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Coffee break & Visit of the exhibition area

16:30 - 17:00

Expert Panel: 17:00 - 18:15

Jacques MORET, Laurent SPELLE, Adam S. ARTHUR, Alejandro BERENSTEIN, Christophe COGNARD, Guilherme DABUS, Timo KRINGS, Laurent PIEROT, Allan TAYLOR

Live Case Transmission	17:00 - 17:30
From: Toronto, Canada University Health Network, Univ. of Toronto Team managed by Vitor Mendes Pereira and Timo Krings	LIVE
Live Case Transmission	17:30 - 18:15
From: Paris, France Bicêtre University Hospital Team managed by Jacques Moret and Laurent Spelle	LIVE

LINNC Partners Awards Ceremony	18:15 - 18:30
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TUESDAY, JUNE 4, 2019

Expert Panel: 8:00 - 9:45

Jacques MORET, Laurent SPELLE, Luisa BISCOITO, Fady CHARBEL, Tudor G. JOVIN, Giuseppe LANZINO, Tufail PATANKAR, Tomoaki TERADA, Honggi ZHANG

KEYNOTE LECTURE 8:00 - 8:15

NOVA-QMRA: Clinical and Future Applications

Fady CHARBEL

Live Case Transmission 8:15- 9:00

From: Beijing, China

Xuan Wu Hospital, Capital Medical University

Team managed by Hongqi Zhang

Live Case Transmission 9:00 - 9:45

From: Paris, France

Bicêtre University Hospital

Team managed by Jacques Moret and Laurent Spelle

Coffee break & Visit of the exhibition area 9:45 - 10:15

Expert Panel: 10:15 - 12:45

Jacques MORET, Laurent SPELLE, Alejandro BERENSTEIN, Christophe COGNARD, Tudor G. JOVIN, Timo KRINGS, Sirintara PONGPECH, Allan TAYLOR, Alvin Yichou WANG

Live Case Transmission

From: Beijing, China

Industry sponsored Symposium (see page 13) 11:00 - 11:30

LINNC Conference Cycle:Who is entitled to speak about time: philosophers, physicists, others?

Etienne KLEIN, Nuclear Engineer from Ecole Centrale de Paris

PhD in Theoretical Physics and in Philosophy

Head of the Research Laboratory on Material Sciences

Xuan Wu Hospital, Capital Medical University **Team managed by Honggi Zhang**

French Alternative Energies and Atomic Energy Commission (CEA), Paris, France

Live Case Transmission 12:00 - 12:45

From: Paris, France

Bicêtre University Hospital

Team managed by Jacques Moret and Laurent Spelle

LIVE

11:30 - 12:00

LIVE

TUESDAY, JUNE 4, 2019

Industry sponsored Symposium (see page 13) 13:30 - 14:15

Expert Panel: 14:15 - 15:45

Jacques MORET, Laurent SPELLE, Adam S. ARTHUR, Fady CHARBEL, Uday LIMAYE, Tufail PATANKAR, Laurent PIEROT, Allan TAYLOR, Alvin Yichou WANG

Lunch break in the exhibition area

Live Case Transmission	14:15 - 15:00
From: Paris, France Bicêtre University Hospital Team managed by Jacques Moret and Laurent Spelle	LIVE
Live Case Transmission	15:00 - 15:45
From: Santiago de Chile, Chile Instituto de Neurocirugia Dr Asenjo Team managed by Rodrigo Rivera	LIVE

Industry sponsored Symposium (see page 13) 15:45 - 16:15

Coffee break & Visit of the exhibition area 16:15 - 16:45

Expert Panel: 16:45 - 18:30

Jacques MORET, Laurent SPELLE, Luisa BISCOITO, Christophe COGNARD, Vincent COSTALAT, Guilherme DABUS, Uday LIMAYE, Michel E MAWAD, Sirintara PONGPECH

Live Case Transmission From: Paris, France Bicêtre University Hospital Team managed by Jacques Moret and Laurent Spelle	16:45 - 17:15
Industry sponsored Symposium (see page 13)	17:15 - 17:45
Live Case Transmission From: Santiago de Chile, Chile Instituto de Neurocirugia Dr Asenjo Team managed by Rodrigo Rivera	17:45 - 18:30

12:45 - 13:30

WEDNESDAY, JUNE 5, 2019

Expert Panel: 8:00 - 9:45

Jacques MORET, Laurent SPELLE, Luisa BISCOITO, Vincent COSTALAT, Christian DENIER, Urs FISCHER, Tudor G. JOVIN, Laurent PIEROT

KEYNOTE LECTURES 8:00 - 8:30

- Thrombectomy in developing countries. Final results of RESILIENT, the first thrombectomy randomized trial conducted in Brazil. Francisco MONT'ALVERNE
- Stroke: Where we are and what we need. Adam S. ARTHUR

Stroke Recorded Case in live conditions	8:30 - 8:50
Bicêtre University Hospital	REC

KEYNOTE LECTURE 8:50 - 9:05

- How to deal with a chronic carotid occlusion decompensation. Vincent COSTALAT

Stroke Recorded Case in live conditions	9:05 - 9:30
Bicêtre University Hospital	REC

KEYNOTE LECTURE 9:30 - 9:45

- Combining reperfusion with neuroprotection. The next frontier in acute stroke treatment? Tudor G - JOVIN

Coffee break & Visit of the exhibition area 9:45 - 10:15

Expert Panel: 10:15 - 12:45

Jacques MORET, Laurent SPELLE, Alejandro BERENSTEIN, Christophe COGNARD, Christian DENIER, Urs FISCHER, Raul G. NOGUEIRA, Tufail PATANKAR

Stroke Recorded Case in live conditions Bicêtre University Hospital	10:15 - 10:45
KEYNOTE LECTURE - Individualized treatment decisions in acute ischaemic stroke. Urs FISCHER	10:45 - 11:00

ı	Industry sponsored Symposium	(see nage 13)	11:00 - 11:30
ı	illuusti y spolisoi eu syiliposiuili	(see page 13)	11.00 - 11.50

Stroke Recorded Case in live conditions	11:30 - 12:00
Bicêtre University Hospital	REC

KEYNOTE LECTURE 12:00 - 12:15

- Revisiting the Concept of Futile Thrombectomy in Large Vessel Occlusion Strokes. Raul G. NOGUEIRA

Stroke Recorded Case in live conditions	12:15 - 12:45
Bicêtre University Hospital	REC

WEDNESDAY, JUNE 5, 2019

Lunch break in the exhibition area

12:45 - 13:30

Expert Panel: 13:30 - 16:30

Jacques MORET, Laurent SPELLE, Christophe COGNARD, Michel E MAWAD, Raul G. NOGUEIRA, Tufail PATANKAR, Laurent PIEROT, Tomoaki TERADA

Round table on cases discussions submitted by LINNC online members

- Life, Stroke & Destiny-Not everyone so Lucky!! Biplab DAS, India
- Intracranial haemorrhage secondary to a delayed cerebral pseudoaneurysm rupture 18 years after cranial trauma. Sebastian REMOLLO FRIEDEMANN, Spain
- Venous approach in the treatment of small Rt occipital AVM. Ayman ZAKARIA, Qatar
- Endovascular Treatment of Brain aneurysms. Aziz WASSEM, United Arab emirates
- Glue-cast pressure cooker technique with venous balloon protection for transverse sinus dAVF. Kartik BHATIA, Canada
- An unusual case of stroke. Stephanie LENCK, Paris
- Our view and possibilities in endovascular treatment of aneurysms of the superior cerebellar artery. 3 cases report: differences and similarities. Vitaly KISELEV, Russia
- A Case of Ruptured Brain Stem AVM Causing a vessel Perforation during Transvenous Embolization. Tomoaki TERADA, Japan
- A rare and surprising cause of cervical myelopathy and its endovascular treatment. Anton GORBATYKH, Russia
- Cerebellar AVM with occipital artery and PICA feeding, how to avoid complication? Dennis MOREIRA, Brazil
- Dual layer devices: intra and extracranial evaluation using oct technology / first in human description. Boris Leornardo PABON GUERRERO, Colombia
- When one door closes another one opens. Omar KASS-HOUT, USA
- Giant Serpentine Aneurysm with Difficult Anatomy: Endovascular management through Direct Percutaneous carotid Puncture. Sibasankar DALAI, India
- Mechanical Thrombectomy in distal MCA occlusion using Tiger 13. Sarah ZIMMER, Germany

Follow-up of LINNC 2018 cases	16:00 - 16:30
Tollow up of Elitite 2010 cases	10.00 10

Best case submitted Award Ceremony	16:30 - 16:45
Closing remarks	16:45 - 17:00

FEED THE DEBATE ON STAGE

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- ► Ask questions by clicking on the REACT BUTTON



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SPONSORED SYMPOSIA

MONDAY, JUNE 3, 2019

11:00 - 11:30 - Philips Industry-sponsored Symposium

PHILIPS

Direct to Angio Suite; the Next Paradigm Shift in Stroke Treatment.

Raul G. NOGUEIRA, USA

13:30 - 14:15 - Stryker Industry-sponsored Symposium

stryker

Committed to Neurovascular Excellence: The Evolution of Stryker's Stent Innovation and Leadership

- Neuroform Atlas: Changing Clinical Practice. Brian JANKOWITZ, USA
- First experience with the new Flow Diverter Evolve. Vincent COSTALAT, France

15:45 - 16:30 - Microvention Industry-sponsored Symposium



Brain Aneurysm Treatment: Latest Clinical Evidences

Moderator: Istvan SZIKORA, Hungary

- WEB® Aneurysm Treatment: WEBCAST, WEBCAST II 3 Years Follow Up. Laurent PIEROT, France
- Hydrogel Endovascular Aneurysm Treatment Trial (HEAT) Results. Guilherme DABUS, USA

TUESDAY, JUNE 4, 2019

11:00 - 11:30 - Balt Industry-sponsored Symposium

Ebalt

Silk Vista baby, first experiences and future perspectives

Moderator: E. BOCCARDI, Italy

- The Leipzig experience: reporting on the clinical outcomes and early results.
 Ulf QUASCHLING, Germany Stefan SCHOB, Germany
- Silk Vista baby experience and FIRST clinical study. Mario GALDAMEZ, Madrid

Medtronic

13:30 - 14:15 - Medtronic Industry-sponsored Symposium

Pipeline™ Embolization Device: 10 years of Leading Innovation

Moderator: M. MAWAD, Lebanon

- First name: Evolution of Technology reflected by Data. Istvan SZIKORA, Hungary
- Repair of ruptured intracranial aneurysms using the Pipeline-Shield with Aspirin mono therapy.
 Nathan W. MANNING, Australia

15:45 - 16:15 - Phenox Industry-sponsored Symposium



Recent evolution in Flow Diversion: p64, p48 MW and HPC.

Laurent PIEROT, France

17:15 - 17:45 - Cerenovus Industry-sponsored Symposium

Treating Complex cases: my solution

Raul G. NOGUEIRA, USA - Osama ZAIDAT, USA

CERENOVUS

WEDNESDAY, JUNE 5, 2019

11:00 - 11:30 - Cerenovus Industry-sponsored Symposium

The Embotrap experience and First Pass efficacy in mechanical thrombectomy

- Outcomes and Implications of FPE post ARISE II. Osama ZAIDAT, USA
- In-Vitro comparison of Embotrap II efficacy. Vincent COSTALAT, France



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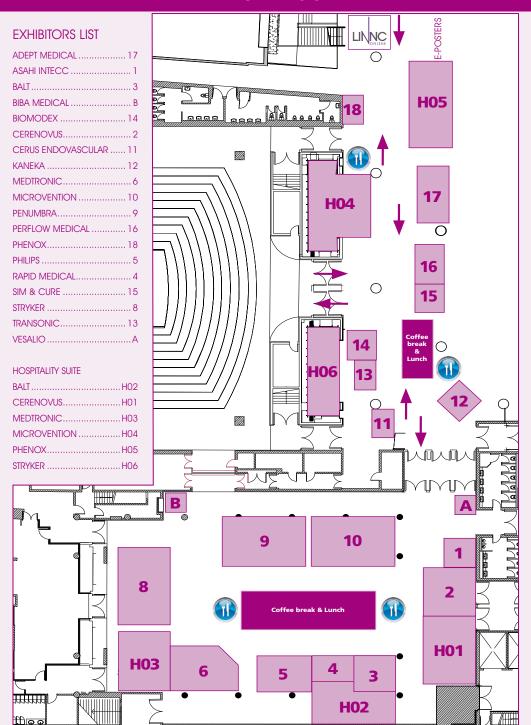








EXHIBITION FLOOR PLAN



INFORMATION

OPENING HOURS

Monday 3 June: 7:00 am - 6:30 pm Tuesday 4 June: 7:00 am - 6:30 pm Wednesday 5 June: 7:00 am - 5:15 pm

WIFI LINNC2019

LINNC 2019 RECEPTION

June 4, 2019 - 7:30 pm Musée national Picasso-Paris 5, rue de Thorigny - 75003 Paris



E-POSTERS

The clinical cases presented on Wednesday 5 June from 13:30 -16:00 are also viewable in the F-POSTERS AREA located in the exhibition.

In addition, come and discover 7 other cases selected as E-posters:

- Complicated carotid stent of pseudoaneurysm
 KASS-HOUT, USA
- Arterial Radial management At The University Of Pittsburgh (ARMPITT)
 Prospective Study of the Transradial Approach for Neurointerventional Procedures
 B. ZUSSMAN, USA
- Traumatic carotid-cavernous fistula associated with Persistent trigeminal artery C-H. OU. Taïwan
- Taking the Fat Belly Up Hexa-axial System for Flow Diverter V. BANGA, India
- Endovascular treatment of ruptured basilar tip aneurysm and PICA aneurysm using a novel device in same sitting in a case of peripheral vascular disease
 N. RAY, India
- Intra-arterial vasodilatation & "DILATE" score in SAH induced vasospasm B. DAS, India
- Trauma, SAH, Dural AV fistula at the same patient How was the management? F.E DENIZ, Turkey



An extensive library of **EDUCATIONAL CASES**

