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 / MEDICAL PRACTICES  
TECHNICAL CHALLENGES

# NEUROVASCULAR

INTENSIVE  
INTERVENTION COURSE

23-M02

4<sup>th</sup> Edition



Advanced  
Health  
Education

by NOVA Medical School

# NEUROVASCULAR / INTENSIVE INTERVENTION COURSE

23-M02

4<sup>th</sup> Edition

**COURSE COORDINATORS >>** Isabel Fragata, MD, PhD

## COURSE PRESENTATION

Endovascular treatment of cerebrovascular diseases has rapidly grown in recent years, and in some cases, such as acute ischemic stroke, is now the gold standard treatment. In many countries, training programs in neurointervention include formal training with simulators, as a prerequisite before patient care.

This is currently recommended by the World Federation of Interventional and Therapeutic Neuroradiology. Simulators improve technical performance, reduce complications and shorten the learning curve.

Simulation will allow the elimination of radiation exposure and patient safety issues. The participant will focus on technical aspects of vascular access, treatment planning and device manipulation. The participant will be exposed to all available devices, for a practical knowledge of advantages, disadvantages and particular indications of each device. Additionally, the participant will be challenged with complications during case simulation, to develop a systematic approach to complication resolution.

The course will have two parts: a first part dedicated to acute stroke and chronic ischemia; second part dedicated to intracranial aneurysms and cerebral vascular malformations.

## LEARNING OBJECTIVES >> *KNOWLEDGE AND SKILLS TO DEVELOP*

- >> To know the etiology, pathophysiology, imaging diagnosis and prognostic of the most frequent cerebrovascular diseases
- >> To know the present state of the art treatment indications for cerebrovascular diseases
- >> To structure the decision-making process in neurovascular diseases
- >> To acknowledge the diverse materials and devices available for endovascular treatment of cerebrovascular disease
- >> To acquire technical skills through simulation for the endovascular treatment of acute stroke, carotid stenosis, intracranial stenosis, vascular malformations, dural AV fistula, and cerebral aneurysms
- >> To recognise complications of endovascular treatment and practice the resolution of complications with the simulator

## TARGET AUDIENCE

Residents in their last 2 years of residency in neuroradiology, neurosurgery or neurology, or specialists of neuroradiology, neurosurgery and neurology can be accepted. Provided they have experience with at least diagnostic cerebral angiography, and preferably, therapeutic angiography. Other specialties may be considered on a case by case basis.

## ADMISSION CRITERIA

Candidates should be enrolled (in the final 2 years of training) or have completed a recognized training program in neuroradiology, neurosurgery or neurology. Candidates should provide written proof of previous experience in diagnostic cerebral angiography, and preferably also therapeutic angiography.

## ATTENDANCE REQUIREMENTS

100% attendance is mandatory for issuing attendance certificate and CME credits and/or ECTS

## MAX. ATTENDEES

20

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## AGENDA

### 2023 / OCTOBER

#### OCT 9<sup>th</sup>

9:00 am – 6:00 pm

@ Ahed – NOVA Health Campus

- >> Welcome
- >> Pre-course Evaluation
- >> **Theoretical Session I**
- >> Pathophysiology of intracranial aneurysm growth and rupture
- >> Subarachnoid haemorrhage and vasospasm
- >> Technical principles of aneurysm coiling
- >> **Therapeutic indications and guidelines**  
Update on guidelines and recent trials  
Treatment decision in unruptured aneurysms
- >> **Hands-on Simulation – Case 1 & 2**
- >> **Theoretical Session II**
- >> Technical principles of flow diversion
- >> Complications and resolution
- >> Tips & Tricks for Beginners
- >> Clinical Case Discussion
- >> **Hands-On Simulation – Case 3 & Complication**
- >> Post-course Evaluation

#### OCT 10<sup>th</sup>

9:00 am – 6:00 pm

@ Ahed – NOVA Health Campus

- >> Pre-course Evaluation
- >> **Theoretical Session I**
- >> Origin and natural history of AVM and AVF
- >> Liquid embolic agents
- >> Technical principles of arterial embolization
- >> Technical principles of venous embolization
- >> Complications and resolution
- >> Tips & Tricks for Beginners
- >> **Hands-on Simulation – Case 1 & 2**
- >> **Therapeutic indications and guidelines**  
Update on guidelines and recent trials  
Multidisciplinary approach of AVMs
- >> Clinical case discussion
- >> **Hands-On Simulation – Case 3 & Complication**
- >> Post-course Evaluation

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### 2023 / OCTOBER

#### OCT 11<sup>th</sup>

9:00 am – 6:00 pm

@ Ahed – NOVA Health Campus

- >> Pre-course Evaluation
- >> **Theoretical Session**
  - >> Pathophysiology of cerebral ischemia
  - >> Imaging diagnosis of acute ischemic stroke
  - >> Principles and technique of thrombectomy
  - >> Complications and resolution
  - >> Outcome measures after thrombectomy
  - >> Tips & Tricks for Beginners
  - >> **Hands-on Simulation – Case 1 & 2**
  - >> **Therapeutic indications and guidelines**
    - Update on guidelines and recent trials
    - Treating the patient outside guidelines
  - >> Clinical case discussion
  - >> **Hands-On Simulation – Case 3 & Complication**
  - >> Post-course Evaluation

#### OCT 12<sup>th</sup>

9:00 am – 6:00 pm

@ Ahed – NOVA Health Campus

- >> **Theoretical Session**
  - >> Pathophysiology of the atherosclerotic plaque
  - >> Imaging diagnosis of arterial stenosis and chronic cerebral ischemia
  - >> Tips & Tricks for Beginners
  - >> Clinical case discussion
  - >> **Hands-on Simulation – Case 1 & 2**
    - >> Complications and resolution
  - >> **Therapeutic indications and guidelines**
    - Update on guidelines and recent trials
    - Treatment of intracranial stenosis
  - >> **Closing Remarks**

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## FACULTY

- >> Alberto Gil, MD
- >> Carolina Pinheiro, MD
- >> David Fiorella, MD, PhD
- >> Isabel Fragata, MD, PhD
- >> Jaime Pamplona, MD
- >> João Reis, MD
- >> Mariana Baptista, MD
- >> Rui Carvalho, MD

**CREDITS >> 2 ECTS**

**DURATION >> 33.5 HOURS**

**PRICE >> 1,900€**

## INCLUSIONS AND EXCLUSIONS IN PRICE

The price published for each course includes teaching fees, space rental, certificate of attendance, and materials used during the course. The price of the course doesn't include hotel accommodation, lunches, and dinners on course days, nor any other items unless specifically mentioned. Prices of courses published by AHED are exempted of VAT. Other items priced by AHED apart from courses may however include VAT.

## APPLICATION, ADMISSION AND REGISTRATION

When applying for a course at AHED – Advanced Health Education, the applicant subjects personal and professional data that will be verified and assessed to check that admission criteria for that specific program are met. Once an application is approved, registration in the course is admitted and will require payment of the price published for the course.

## APPLICATION FEES

Application fees are as follows:

-100 € for courses priced above 1000 €

-50 € for courses priced below equal to 1000 € Application fees are non-refundable.

## COURSE REGISTRATION FEES

The registration stage is considered completed when the total price of the course is received by AHED.

## PAYMENT OPTIONS

Payment options for application and registration include credit card (Visa, MasterCard), wire transfer in Euro, and Multibanco.

## EARLY BIRD

Application fees will be discounted from the course price for registrations completed 90 calendar days before the date of the course.

For additional information, please go to in Terms and Conditions at [ahed.pt](http://ahed.pt)

**APPLICATION DEADLINE >> OCTOBER 2<sup>nd</sup> 2023**

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