



# ECMINT

European Course of  
Minimally Invasive Neurological Therapy

ECMINT 4.4  
Preliminary Programme

**ECMINT 4.4**  
**Monday 12<sup>th</sup> December to Friday 16<sup>th</sup> December 2022**  
**St Anne's College, Oxford**

Topic: **Endovascular Treatment of Arteriovenous Malformations and Fistulas**

Course Directors: Dr. Shelley Renowden, Prof. Phil White, Prof. Peter Jezzard

Course Organiser/administrator: Ms. Tarryn Ching

## Lectures

**Starting Monday 12pm (day, times, lecturers to be confirmed)**

Natural history of brain AVMs

Classification of brain AVMs

Imaging for pial AVMs and AVFs: how I assess angioarchitecture

Role of fMRI in embolisation treatment planning

Cerebral proliferative angiopathy: what is it?

Management of unruptured AVMs – ARUBA fall-out

Sedatives and analgesics in Interventional Neuroradiology

Functional vascular neuroanatomy of the brain stem

Liquid embolic agents

Techniques for transarterial embolization of brain AVMs

Cavernous Malformations, telangiectasias and DVAs – natural history and management

Techniques for transvenous embolisation of brains AVMs

The live of brain AVMs

Vessel closure devices: which should we use?



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Stereotactic Radiosurgery for AVMs: with or without embolization?

Management and prevention of complications during AVM embolization

Spinal vascular anatomy

Embolisation of spinal vascular malformations

Genetics of AVMs

What is the role of middle meningeal artery embolisation in the management of chronic subdural haematomas?

Is there a role for treatment modalities for brain AVMs other than neurosurgery?

Normal pressure breakthrough haemorrhage: What is it? How can it be prevented?

High flow vascular malformations in children: pathophysiology and management

Functional vascular anatomy of the thalamus and internal capsule

Anatomy: the skull base

Spinal intervention: the vertebral column



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## Tutorials

### Group 1

- Management and prevention of complication during EVT of brain AVMs
- Embolization of brain AVMs: how I do it
- Assessing the risks of embolization of AVMs for the individual patient: Should I embolise this brain AVM?
- Different strategies for embolising BAVMs
- Angiographic analysis of AVM angioarchitecture and relevance to embolization strategy

### Group 2

- Facial vascular malformations: classification and management
- Natural history and management of spinal malformations
- Management of intracranial vascular malformations in neonates and young children
- Percutaneous spinal techniques
- The pragmatists approach to AVM management

\*\*Please note: This programme is provisional, timings and titles may change.\*\*