





Endovascular Treatment of Arteriovenous Malformations and Fistulas Monday 12th to Friday 16th December 2022 St Anne's College, Oxford

Course Directors: Dr. Adam Rennie, Prof. Phil White, Prof. Peter Jezzard Course Administrator: Ms.Tarryn Ching

Monday, 12th December 2022 (Mary Ogilvy Lecture Theatre)

12.00	Registration / Lunch	
13.00 - 13.15	Introduction to program and outline of course structure	Dr A Rennie/ Pr P White Pr P White
13.15 - 13.40	Natural history of brain AVMs	
13.40 – 14.05	Classification of brain AVMs	Pr T Andersson
14.05 - 14.30	Techniques for transarterial embolization of brain AVMs	Pr M Aggour
14.30 – 15.00	Management of unruptured AVMs – ARUBA fall-out	Pr R Al-Shahi Salman
15.00 - 15.15	Coffee / Check in	
15.15 – 15.40	Role of fMRI in bAVM treatment planning	Dr N Voets
15.40 – 16.05	Genetics of bAVMs	Dr J Berg
16.05 – 16.35	Anatomy: the skull base	Dr S Renowden
16.35 – 17.00	Functional vascular neuroanatomy of the brain stem	Dr R Lenthall
17.00 - 18.30	Formative Quiz 1: 1h indicative but up to 90mins allowed (Orzone on-line)	
19 15 prompt	Dinner St Anne's College	

19.15 prompt Dinner St Anne's College



19.15 prompt





Preliminary programme 4.4

Tuesday, 13th December 2022 (Mary Ogilvy Lecture Theatre) 08.30 - 09.00Liquid embolic agents **Dr S Lamin** 09.00 - 09.45Techniques for transvenous embolisation of brains AVMs **Pr M Aggour** 09.45 - 10.15 Cavernous Malformations, telangiectasias and DVAs -Dr M Gawlitza natural history and management 10.15 - 10.30Tea / Coffee 10.35 - 11.50 **Tutorial 1** 11.50 - 12.30Imaging for pial AVMs and AVFs: Pr Z Kulcsar how I assess angioarchiecture 12.30 - 13.30Lunch 13.30 - 14.45Tutorial 2 14.50 - 16.00**Tutorial 3** 16.00 - 16.15Tea / Coffee Vessel closure devices: which should we use? **Dr R Lenthall** 16.15 - 16.4016.45 - 18.00**Tutorial 4**

Dinner at St Anne's College

The European Course in Minimally Invasive Neurological Therapy (ECMINT) 4.4, Oxford, United Kingdom, 12/12/2022-16/12/2022 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 24 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.







Wednesday, 1	4 th December 2022 (Mary Ogilvy Lecture Theatre)	
08.30 – 09.00	Functional vascular neuroanatomy of the thalamus and internal capsule	Dr S Renowden
09.05 – 10.15	Tutorial 5	
10.15 – 10.30	Tea / Coffee	
10.30 – 11.00	Management and prevention of complications during AVM embolization	Pr E Boccardi
11.00 - 11.25	Spinal vascular embryology and anatomy	Dr A Rennie
11.30 - 12.40	Tutorial 6	
12.40 - 13.40	Lunch	
13.40 – 14.50	Tutorial 7	
14.50 – 15.20	Cerebral proliferative angiopathy: what is it?	Dr F Robertson
15.20 – 15.35	Tea / Coffee	
15.40 – 16.50	Tutorial 8	
16.50 - 18.20	Formative Quiz 2- 1h indicative but up to 90mins allowed (Orzone on-line)	
19.00	Meet at lodge	
19.30	Dinner at Oriel College	







Thursday, 15 th	December 2022 (Mary Ogilvy Lecture Theatre)	
08.30 – 09.00	Embolisation of spinal vascular malformations	Dr A Rennie
09.05 – 10.15	Tutorial 9	
10.15 – 10.30	Tea / Coffee	
10.35 – 11.45	Tutorial 10	
11.50 – 12.30	Brain AVMs How I approach them (+ complimentary Pr. C Cognard online only lecture accompanying)	Dr AC Januel
12.30 - 13.30	Lunch	
13.30 – 14.10	Surgery for brain AVMs: patient selection, operative considerations and post-operative management	Pr A Laakso
14.10 - 14.50	High flow vascular malformations in children: pathophysiology and management	Dr F Robertson
14.50 - 15.10	Tea / Coffee	
15.10 - 15.40	Quality of life in brain AVM patients	Pr A Laakso
15.40 - 16.25	Spinal intervention: the vertebral column	Dr S Morgan
16.25 - 16.55	Stereotactic Radiosurgery for AVMs: with or without embolization?	Dr C Tancu
19.15 prompt	Dinner at St Anne's College	







Friday, 16 th December 2022 (Mary Ogilvy Lecture Theatre) (NB. Check out before start of morning is preferable)				
09.00 - 09.30	Sedatives, analgesics, seizure medication in Interventional Neuroradiology	Dr B Feix		
09.30 – 10.00	Biomechanics of the spine: the basics an interventionist needs to know	Dr S Morgan		
10.00 – 10.30	Coffee / check out			
10.30 – 12.00	Final Quiz (Orzone on-line)			
12.00 – 13.30	Quiz overview Q and A, discussion	Pr P White		
13.30	Course ends			
 Tutorials 1-5 (Group 1) Management and prevention of complication during EVT of brain AVMs Embolisation of brain dAVF: how I do it Strategies for managing dAVFs Facial vascular malformations: classification and management The pragmatists approach to bAVM management 		Pr Z Kulcsar Pr M Aggour Pr T Andersson Dr S Lamin Pr P White & Dr R Lenthall		
Tutorials 6-10 (Group 2)				
 Natural h Percutane epidural i 	Dr A Rennie Dr S Morgan			
 Assessin individual 	 Assessing the risks of embolisation of AVMs for the individual patient: Should I embolise this brain AVM? When would I advise other Rx modality? 			
 Angiogra 	 Angiographic analysis of AVM angioarchitecture and relevance to embolisation strategy 			
 Managen 	nent of intracranial vascular malformations in and young children	Dr F Robertson		

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