

The Moorfields Macula Course



**Moorfields
Education**



**INSTITUTE OF
OPHTHALMOLOGY**

The Moorfields Macula Course

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1. Introduction

The Moorfields Macula Course gives a comprehensive and up-to-date review of retinal disease and management (including medical retina, inherited retinal disease, surgical retina, uveitis, oncology). The lecturers have established expertise in their topics, having in many cases contributed to significant advancements in their fields. They are senior clinicians and experienced speakers, and several are internationally renowned.

The course has run in various forms over decades and has proven popular. After a pause due to the pandemic, the course restarted in 2022 in a hybrid format over 3 days. Feedback was extremely positive, but it was felt that 3 days was too short for the material covered. From 2023, we extended it to 4 days, densely packed with interactive lectures, with options for in-person or virtual (online) attendance. In-person attendees will experience the newly refurbished Moorfields Education Hub.

We hope you will enjoy the course and learn of advances that will translate to improved patient care. We welcome any feedback and the opportunity to learn from you.

Omar Mahroo MA, MB, BChir, PhD (Cantab); FRCOphth, FHEA, FRSB, FTPS
Consultant Ophthalmologist, Moorfields Eye Hospital
Professor of Retinal Neuroscience, University College London

2. Venue

Below is a map depicting the venue, close to Moorfields Eye Hospital. The nearest tube station is Old Street.

The directions recommend using the exit from Old Street station that is currently closed, to avoid the need to cross over City Road. Instead, you will need to use the Moorfields exit from Old Street Station and then cross City Road at the traffic light crossings to get to Provost St.



3. Course Objectives

Retinal diseases are a major cause of blindness. Diagnostic investigations, understanding of disease mechanisms, new therapies, and the evidence base, have all evolved rapidly in recent years, with greater advances expected in the coming decade.

The course aims to provide a comprehensive and up-to-date review of retinal and macular diseases and their management, including new developments. Key learning outcomes include:

- Up-to-date overview of diseases affecting the retina, including medical retina, surgical retina, inherited retinal disease, uveitis and oncology, including their pathophysiology, clinical features and management
- An understanding of key diagnostic investigations and their interpretation
- Approaches to challenging cases
- Knowledge of future developments including artificial intelligence, novel investigations, genomic diagnosis and new therapies (delivered by some of the people involved in bringing about these advances)

There is a limit to what can be covered over 4 days, but we hope to cover key relevant topics and more. The course is appropriate for ophthalmologists (including consultants, trainees, fellows, staff and associate specialists) and will be at a level appropriate for general ophthalmologists as well as subspecialists. Allied health professionals with a specific interest in retinal disease might also find the course valuable.

The course will provide around 25 hours of learning (excluding lunch and coffee breaks).

4. The Speakers

This course affords participants the opportunity to interact with recognised experts in their fields. Brief biographies are given below (in alphabetical order), but more information can be found online. All lecturers have published widely, and many are regularly invited to speak at international meetings.

Peter Addison

Peter Addison is Consultant Ophthalmologist at Moorfields Eye Hospital, specialising in retinal diseases and inflammatory conditions of the eye. He is also Honorary Consultant Ophthalmologist at St Thomas' Hospital where he provides expertise as part of the Medical Eye Unit. He completed his medical degree at the University of Cambridge (achieving first class honours in his undergraduate years), an MD at UCL, and ophthalmology specialist training in Cambridge and London. He has led the intravitreal steroid implant service since its inception in 2012, training scores of ophthalmologists in the use of steroid implants in the management of patients with the full range of uveitis and retinal diseases. He has shared best practice through conference presentations and wet labs as well as weekly through his specialist clinics and high-volume treatment sessions.

Colin Chu

Colin Chu is a Wellcome-funded Clinician Scientist and Consultant Ophthalmologist, specialising in uveitis. He completed his undergraduate degree at the University of Cambridge and his medical degree at the University of Oxford, prior to his PhD at UCL. He was later appointed an Academic Clinical Lecturer at the University of Bristol, after which he also spent time conducting research at centres in the United States including the University of Rochester and the National Institutes of Health (NIH). He works on advanced imaging approaches in uveitis.

Lyndon Da Cruz

Lyndon Da Cruz is Consultant Ophthalmologist at Moorfields Eye Hospital and Professor of Retinal Stem Cell and Transplantation Surgery at the UCL Institute of Ophthalmology. His areas of research include electronic retinal implants, stem cell transplantation and gene therapy, receiving the Ridley Lecture Medal in 2014. In partnership with the late Professor Pete Coffey, he led the London Project to Cure Blindness, which made a major breakthrough in stem cell treatment for selected patients with age-related macular degeneration.

Robin Hamilton

Robin Hamilton is Consultant Ophthalmologist at Moorfields Eye Hospital and Honorary Senior Lecturer at the UCL Institute of Ophthalmology. He completed several years as Service Director, leading the large and busy Medical Retina Service at Moorfields. He currently leads on digital

connectivity. He is Chairman of the Laser Safety Committee and AMD Service Lead, and he leads several clinical trials.

Tjebo Heeren

Tjebo Heeren is Consultant Ophthalmologist and retinal specialist at Moorfields. He has leading expertise in retinal imaging and in research relating to Macular Telangiectasia Type 2 (MacTel). He completed his PhD at University College London, investigating visual dysfunction in this condition, and has led on several important discoveries in the field of retinal disease.

Robert Henderson

Robert Henderson is Consultant Paediatric Ophthalmic Surgeon at Moorfields Eye Hospital and Great Ormond Street Hospital, and Associate Professor at the UCL Institute of Child Health. He is one of only three dedicated paediatric vitreoretinal surgeons in the country and his expertise includes the management of familial exudative vitreoretinopathy, Coats disease, incontinentia pigmenti and retinopathy of prematurity as well as complex retinal detachments. His fellowship training was in Toronto and Melbourne as well as Moorfields. He is active in research and is engaged in facilitating the delivery of licensed gene therapy to NHS patients.

Josef Huemer

Josef Huemer is Consultant Ophthalmologist and retinal specialist at Moorfields. He is active in several areas of research, including in telemedicine and artificial intelligence. He was interviewed last year by ITV news regarding the potential of AI in retinal disease. He is Fellow of the European Board of Ophthalmology and regularly gives talks internationally, having won research awards in recent years. He co-chairs (with Omar Mahroo) a weekly online retinal case discussion meeting (“Prof Bird Rounds”) which attracts a global audience.

Omar Mahroo

Omar Mahroo is Consultant Ophthalmologist at Moorfields and Professor of Retinal Neuroscience at UCL. His medical degree and PhD were at the University of Cambridge (achieving a triple first class during his undergraduate years). He manages patients with inherited retinal disease (IRD). His research explores human retinal function *in vivo* using electrophysiology, investigating IRDs, retinal signalling in neurological conditions, and mechanisms of myopia. He is Fellow of the Higher Education Academy. He is involved in public engagement, speaking at patient days, and appearing in one of the Royal Institution Christmas Lectures in Dec 2018. He was awarded “Rising Star of the Year” by the Macular Society in 2019, and received awards for Teaching Excellence and for Public and Patient Engagement in 2020. In 2023 he became Fellow of the Royal Society of Biology and Fellow of the

Physiological Society. In 2025 he became Director of Standards for the International Society for Clinical Electrophysiology of Vision, and in 2026 he became Chair of the ARVO Global Members Committee.

Moin Mohamed

Moin Mohamed is a senior Consultant Ophthalmic Surgeon and Medical Retina specialist at St Thomas' Hospital, having completed his fellowship training at Moorfields prior to his consultant appointment. Prior to that, he completed a very successful PhD in ocular genetics, discovering new genetic causes of eye disease. He manages busy clinics and provides a tertiary referral service for patients with inherited retinal disease and patients with central serous retinopathy. He participates in international panel discussions, runs national seminars and provides advanced clinical training to retinal fellows from the UK and abroad.

Luke Nicholson

Luke Nicholson is Consultant Ophthalmologist and retinal specialist at Moorfields Eye Hospital. He completed a 2-year medical retina clinical and research fellowship at Moorfields where he played a key role in pivotal studies relating to diabetic retinopathy and retinal vein occlusion. He completed an additional 18 months of medical retina and uveitis fellowship training at Moorfields. He is actively involved in research and completed his MD(Res) at University College London studying the use of ultra-widefield imaging in retinal vascular diseases and its association with neovascularisation and retinal vessel oxygenation. He has published widely on retinal vascular diseases and has designed virtual diagnostic clinic pathways for the Moorfields retinal service. He is currently Service Director for Medical Retina. The Medical Retina Service is one of the largest services at Moorfields, and one of the largest medical retina services in the country, with many consultants, over 20 fellows and trainees, and large numbers of allied health staff. Medical retina and intravitreal injection clinics run daily at multiple Moorfields sites.

Narciss Okhravi

Narciss Okhravi works as a Consultant Ophthalmic Surgeon and Director of Studies and Undergraduate Education at Moorfields Eye Hospital NHS Foundation Trust, and UCL Institute of Ophthalmology. Narciss qualified in 1989 from the Royal London Medical School. She obtained a PhD in Ophthalmology (UCL Institute of Ophthalmology, 1999), and a Postgraduate Certificate in Medical Education (Dundee University, 2010). Professor Okhravi has worked as a Consultant Ophthalmic Surgeon since 2004 specialising in the fields of Medical retina, Uveitis and Cataract surgery. She is a Generation Q Alumna, having undertaken a Postgraduate Certificate in Leadership (Quality Improvement) at The Health Foundation and Ashridge Business School (2012-14). She is a Principal Fellow of the Higher Education Academy, Fellow of the Academy of Medical Educators, holds a Professorial Teaching Fellow position at the UCL Institute of Ophthalmology and is Associate Dean and Honorary Clinical Senior Lecturer at Barts and the London School of Medicine and Dentistry.

Bishwanath Pal

Bish Pal is Consultant Ophthalmologist and Medical Retina specialist at Moorfields Eye Hospital. He manages patients with medical retina conditions in busy outpatient clinics at Moorfields. He is also active in research, having several publications in the field of retinal disease. He is Director of the Medical Retina fellowship at Moorfields, which receives large numbers of applicants from the UK and overseas.

Harry Petrushkin

Harry Petrushkin is Consultant Ophthalmologist at Moorfields, and manages adults and children with uveitis at Moorfields and Great Ormond Street Hospital. He studied medicine at Cambridge University and King's College London. He carried out much of his ophthalmic training at Moorfields, with Professor Carlos Pavesio, and at St Thomas' Hospital, with Professor Miles Stanford, where he developed his interest in inflammatory eye disease. This led to a PhD, which he completed at Queen Mary University London, in the Behcet's Disease Centre of Excellence. In 2016, Harry travelled to the United States, and spent time at the Francis Proctor Eye Institute, San Francisco, the Casey Eye Institute, Portland, and the Massachusetts Eye Research and Surgery Institute, Boston.

Anthony Robson

Anthony Robson is a Consultant Clinical Scientist at Moorfields, Honorary Professor at the UCL Institute of Ophthalmology, and Honorary Professor at the Southwest Hospital Medical University in Chongqing, China. He heads the Electrophysiology Department at Moorfields Eye Hospital, which is one of the largest visual electrophysiology departments in the world. The department is responsible for the full range of clinical visual electrophysiological testing and has contributed seminal work to the understanding of the electrophysiology of retinal disease. He served as Director of Standards for the International Society for the Clinical Electrophysiology of Vision (ISCEV) for eight years and is now Director of Education for ISCEV. He is also director of the annual Moorfields Electrophysiology Course which draws an international audience, with consultants attending from Europe, India and North America.

Mandeep Sagoo

Mandeep Sagoo is Consultant Ophthalmologist at Moorfields Eye Hospital and Professor of Ophthalmology and Ocular Oncology at UCL. He completed his medical degree and PhD at the University of Cambridge, his ophthalmology training in London, and an ocular oncology fellowship at the Wills Eye Hospital in Philadelphia. He is a globally recognised expert in ocular oncology, with a large number of high impact publications, and delivers advanced training for international fellows at Moorfields. He was Course Director for the Ophthalmology MSc at UCL for several years.

Zubin Saihan

Zubin Saihan is Consultant Ophthalmologist at Moorfields Eye Hospital and manages patients with retinal conditions and cataract. His research at the UCL Institute of Ophthalmology investigated Usher syndrome (which comprises retinitis pigmentosa and deafness). He has contributed to the development of a diabetic retinopathy screening programme in Jamaica for which he received an award. He is an excellent trainer, overseeing the induction and clinical supervision of specialist trainees in ophthalmology in the Medical Retina service at Moorfields. He is also Local Faculty Group Representative for Medical Retina to the Moorfields Specialist Services Education Committee.

Sobha Sivaprasad

Sobha Sivaprasad is Consultant Ophthalmologist and Medical Retina specialist at Moorfields Eye Hospital and is Professor of Ophthalmology at UCL. She leads several multicentre national and international research studies and oversees research studies at Moorfields. She is an NIHR Senior Investigator and has received many research awards and accolades over the years, including the prestigious Paul Henkind Memorial Award from the US-based Macula Society in Feb 2025. For several years, she has been Editor-in-Chief of *Eye*, the scientific journal of the Royal College of Ophthalmologists.

Ilaria Testi

Ilaria Testi is a Consultant Ophthalmologist and Uveitis Specialist at Moorfields Eye Hospital and Great Ormond Street Hospital. She completed her medical school and ophthalmology training in Italy, followed by advanced subspeciality training in India, Singapore, Moorfields and Great Ormond Street. She has published widely on uveitis and regularly lectures at specialist meetings.

Dhanes Thomas

Dhanes Thomas is Consultant Ophthalmologist at Moorfields, specialising in medical retina and in adult and paediatric uveitis. She recently authored findings from a national survey of incidence, management and visual outcomes in childhood uveitis not associated with juvenile idiopathic arthritis. She is Training Programme Director for Advanced Clinical Practice and SuporRTT (Supported Return to Training) for the London School of Ophthalmology. Dhanes is also Clinical Director for the Oriel Project, which is the joint initiative between Moorfields Eye Hospital, the UCL Institute of Ophthalmology and Moorfields Eye Charity, bringing about the move of the joint Moorfields and Institute of Ophthalmology site to an ambitious new purpose-built integrated centre in Camden, near Kings Cross.

Supawat Trepatchayakorn

Supawat Trepatchayakorn is a retinal specialist at Moorfields, having completed his training in Thailand followed by fellowship training at Moorfields. He leads on photodynamic therapy (PDT) for central serous retinopathy at Moorfields.

William Tucker

William Tucker is Consultant Ophthalmologist at Moorfields and Divisional Director of Moorfields South. He specialises in ocular inflammatory disease and completed advanced subspecialty training at the St Thomas' Hospital Medical Eye Unit, at the National Eye Institute of the United States, and at Moorfields. He has published widely in retinal disease and uveitis, and co-authored analyses from pivotal multicentre studies. He led the setting up of monitoring for hydroxychloroquine retinopathy at Moorfields.

Adnan Tufail

Adnan Tufail is Consultant Ophthalmologist at Moorfields Eye Hospital and Professor of Ophthalmology at the UCL Institute of Ophthalmology. He is also a theme lead for the "Development, Ageing and Disease" theme at the Institute. He is part of the Retina Research Group at UCL that brings together vascular biologists, clinicians, and data scientists to improve our understanding of retinal disorders. He coordinates medical retina fellows teaching and is the clinical lead for the imaging service. He manages patients with complex and rare retinal conditions at Moorfields. He has been awarded substantial research grant funding and directs several wide-ranging collaborative programmes of research (including the MACUSTAR EU consortium for AMD, and Validation of AI for Diabetic Screening), and the use of big data in ophthalmology, resulting in novel discoveries and a large number of high impact publications.

Andrew Webster

Andrew Webster is Professor of Molecular Ophthalmology at the UCL Institute of Ophthalmology and Consultant Ophthalmologist at Moorfields Eye Hospital, managing patients with inherited retinal disease. For several years, he headed the Genetics Service at Moorfields, which manages one of the largest cohorts of genetically diagnosed patients with inherited retinal disease worldwide. He is a globally recognised authority in genetic eye disease. His team have discovered several genes involved in retinal dystrophies. He chaired the Hearing and Sight Domain of the Genomics England Clinical Interpretation Partnership, and led the Genomic Medicine and Informatics theme of the NIHR Biomedical Research Centre at Moorfields and the UCL Institute of Ophthalmology.

Mark Westcott

Mark Westcott is Consultant Ophthalmologist at Moorfields and at Barts and the Royal London Hospitals, specialising in uveitis and in glaucoma. He qualified from St Thomas' Hospital in 1989, completing his ophthalmology training in London, as well as an MD in visual function in glaucoma. He also trained at the Jules Stein Eye Institute, UCLA, Los Angeles, winning a national scholarship in ophthalmology to fund his training. He was appointed a Consultant at Barts and The Royal London Hospitals and at Moorfields Eye Hospital in 2003.

5. Lecture timetable (subject to change)

MONDAY 1 JUNE

Time	Topic	Speaker
0900-0915	Introduction to the Course and Overview	Omar Mahroo
0915-0945	Anatomy & Physiology / Structure & Function	Omar Mahroo
0945-1030	Retinal and choroidal ischaemia	Josef Huemer
1030-1100	Non-neovascular AMD (1)	Adnan Tufail
1100-1130	COFFEE BREAK	
1130-1200	Non-neovascular AMD (2)	Adnan Tufail
1200-1240	Myopia and myopic maculopathy	Adnan Tufail
1240-1300	Investigations: OCT, OCTA	Adnan Tufail
1300-1400	LUNCH	
1400-1455	CSR and the pachychoroid spectrum; PDT	Moin Mohamed
1455-1510	Moorfields CSR treatment pathways	Supawat Trepatchayakorn
1510-1530	Sickle cell retinopathy	Moin Mohamed
1530-1600	COFFEE BREAK	
1600-1650	Uveitis Overview	Ilaria Testi
1650-1730	AI and Retinal Disease	Josef Huemer

TUESDAY 2 JUN

Time	Topic	Speaker
0900-0910	Announcements	Omar Mahroo
0910-0940	Treatments: AntiVEGF overview – current & newer drugs, biosimilars	Robin Hamilton
0940-1000	Treatments: Retinal laser	Robin Hamilton
1000-1100	Investigations: Electrophysiology in retinal disease	Anthony Robson
1100-1130	COFFEE BREAK	
1130-1210	Topics in Paediatric VR	Robert Henderson
1210-1230	Retinal gene therapy	Robert Henderson
1230-1300	Treatments: Intraocular Steroids	Peter Addison
1300-1400	LUNCH	
1400-1430	Hypotony!	Harry Petrushkin
1430-1530	Inherited Retinal Disease 1	Omar Mahroo
1530-1600	COFFEE BREAK	
1600-1700	Non-infectious uveitis	Dhanes Thomas
1700-1730	Autofluorescence imaging	Omar Mahroo

WEDNESDAY 3 JUN

Time	Topic	Speaker
0900-0910	Announcements	Omar Mahroo
0910-0930	The Moorfields Medical Retina Fellowship	Bish Pal
0930-1000	Post-surgical and <i>other</i> macular oedema	Zubin Saihan
1000-1020	Genetic factors in AMD	Andrew Webster
1020-1100	Inherited retinal disease (2)	Andrew Webster
1100-1130	COFFEE BREAK	
1130-1230	Diabetic retinopathy and maculopathy	Sobha Sivaprasad
1230-1300	Wet AMD, new developments	Sobha Sivaprasad
1300-1400	LUNCH	
1400-1500	FFA, ICG, UWF	Luke Nicholson
1500-1530	Future developments in uveitis	Colin Chu
1530-1600	COFFEE BREAK	
1600-1730	Intraocular Tumours	Mandeep Sagoo

THURSDAY 4 JUN

Time	Topic	Speaker
0845-0850	Announcements	Omar Mahroo
0850-0910	HCQ & other drug-related maculopathies	Will Tucker
0910-0940	Uveitis: Viral retinitis and treponemal disease	Mark Westcott
0940-1010	Uveitis: Exogenous and endogenous endophthalmitis	Narciss Okhravi
1010-1035	Telangiectasia; Coats'; MacTel	Tjebo Heeren
1035-1100	Electronic implants	Mahi Muqit
1100-1130	COFFEE BREAK	
1130-1210	VR interventions in macular disease	Lyndon Da Cruz
1210-1240	Stem cell treatments	Lyndon Da Cruz
1240-1300	Robotic surgery	Lyndon Da Cruz
1300-1400	LUNCH	
1400-1450	Retinal Vein occlusions	Luke Nicholson
1450-1530	Setting up virtual clinics the MEH experience	Luke Nicholson
1530-1600	COFFEE BREAK	
1600-1715	Interactive Cases	Omar Mahroo
1715-1725	Summary and closing remarks	Omar Mahroo

6. Contacts

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