

OUR GLOBAL CASE REPORT QUIZ EXPERTS

CASE 1



Dr. Alex Levin



Dr. Mary O'Hara



Dr. Peng Khaw



**Dr. Denise
Satterfield**



**Dr. Frank
Martin**

Dr. Alex V. Levin; MD, MHSc, FAAP, FAAO, FRCSC completed a pediatric residency at the Children's Hospital of Philadelphia and an ophthalmology residency at Wills Eye Hospital in Philadelphia, followed by a pediatric ophthalmology fellowship at The Hospital for Sick Children. He is currently the Chief of Pediatric Ophthalmology and Ocular Genetics, Robison D. Harley, MD Endowed Chair in Pediatric Ophthalmology and Ocular Genetics, at Wills Eye Institute in Philadelphia. He completed his MHSc in Bioethics at the University of Toronto Joint Centre for Bioethics and was the Director of Postgraduate Bioethics Education at the University of Toronto for many years. He has been teaching bioethics for over 20 years and was one of the organizers, along with Dr. George Spaeth, of perhaps the first ophthalmology resident ethics course in North America in the 1980's. He co-directs the Halifax Symposium on Ophthalmology Ethics. His areas of bioethics interest include child abuse research ethics, interactions with medical industry, surgical innovation, medical error disclosure, and the role of trainees in patient care.

Dr. Denise Satterfield; MD, FAAP trained as an RN before going to medical school and was inspired in Nursing School to go into Pediatric Ophthalmology after scrubbing in on a strabismus case. She has a degree in Microbiology from U C San Diego and received her medical training including pediatric internship and ophthalmology residency at U C Davis School of Medicine. Her fellowship in Pediatric Ophthalmology and Strabismus was in San Francisco with Arthur Jampolsky and Alan Scott. She is in solo private practice in Sacramento and serves on the Volunteer Clinical Faculty for U C Davis Department of Ophthalmology, as well as for the Family Medicine Residency Programs at Mercy and Sutter Hospitals. In her spare time she loves to spend time with her husband and grown daughters, cook international cuisine and hike.

Dr. Frank Martin; MBBS, FRACS, FRANZCO was head of the Department of Ophthalmology at the Children's Hospital at Westmead for 22 years and is currently a Visiting Medical Officer at the Sydney Children's Hospital Network (the Children's Hospital at Westmead and Sydney Children's Hospital, Randwick), as well as at Sydney Eye Hospital. He is Clinical Professor in the Department of Paediatrics and Child Health and Ophthalmology at the University of Sydney. Dr. Martin has published over 40 articles, has written several text book chapters and is a reviewer for the British Journal of

Ophthalmology. He was Editor of the Australian and New Zealand Journal of Ophthalmology for 11 years. He is the past President of the Asia Pacific Academy of Ophthalmology, he is current President of the Children's Medical Research Institute at Westmead, the International Strabismus Association and the Asia Pacific Society of Paediatric Ophthalmology and Strabismus. In 2013 he was appointed to the Board of Trustees of the American Academy of Ophthalmology. Frank also serves as a director of the Board of the International Council of Ophthalmology and was made an Honorary Professor of the Zhongshan Ophthalmic Center Sun Yat-sen University.

Dr. Mary O'Hara; MD is the Director of Pediatric Ophthalmology and Adult Strabismus at the Eye Center of University of California, Davis where she is a professor of ophthalmology and pediatrics. She completed her residency training at Brooke Army Medical Center in San Antonio, Texas and her fellowship in pediatric ophthalmology at the Wills Eye Institute in Philadelphia.

Professor Sir Peng Tee Khaw; PhD, FRCP, FRCS, FRCOphth, FRCPath, FCOptom, Hon DSc, FRSB, FARVO, FMedSci is the Director of the NIHR Biomedical Research Centre for Ophthalmology at Moorfields Eye Hospital and UCL Institute of Ophthalmology; the Eyes and Vision Programme, UCL Partners Academic Health Science Centre; and Research and Development, Moorfields Eye Hospital. Sir Peng has a special interest in glaucoma, in children and young adults. He has been looking after children with glaucoma for 25 years. His research interests are in developing new therapies, particularly for preventing scarring and regeneration. He has developed surgical techniques, including the Moorfields Safer Surgery System, which have markedly improved the safety and outcomes of antimetabolite-assisted trabeculectomy in many parts of the world, especially reducing bleb related endophthalmitis and blebitis. With his team he has also developed anti-scarring regimens which have led to international clinical trials and are in use routinely in clinic. Currently, he is developing new anti-scarring drugs and delivery systems, as well as drainage devices, and has proposed the 10-10-10 challenge for glaucoma; an intraocular pressure of 10 mmHg that lasts for 10 years, done in 10 minutes. He is also a strong advocate of the 'energy' theory of glaucomatous axonopathy, helping move towards stem cell regenerative therapies for the optic nerve, which also requires modulation of scarring. In 2013 he was the first British President of ARVO. His publications include over 450 papers, chapters and books and he has helped to raise over \$170 million for clinical and research facilities, including the largest children's eye hospital and research centre, which are both the largest in the world. In 2013, he was knighted in the Queen's Birthday Honours for services to ophthalmology.

CASE 2



Dr. Arif O. Khan



Dr. Kimberley Tan



Dr. Paolo Nucci

Dr. Arif O. Khan; MD is the Section Head of Pediatric Ophthalmology, Director of the Center for Genetic Eye Disease, and Clinical Professor of Ophthalmology at the Eye Institute of Cleveland Clinic Abu Dhabi. Prior to joining the Cleveland Clinic Abu Dhabi, Dr. Khan served as Senior Academic Consultant in the Division of Pediatric Ophthalmology at King Khaled Eye Specialist Hospital from 2007-2015. He was also a Senior Scientist, Department of Genetics, at King Faisal Specialist Hospital & Research Center during the same time period. Dr. Khan completed his residency in Ophthalmology at the Mount Sinai Medical Center in New York City and his fellowship in Pediatric Ophthalmology & Strabismus at Children's Hospital Medical Center in Cincinnati, Ohio. Before he and his family moved to the Middle East in 2002, he had been in private practice on Long Island, New York. Dr. Khan's clinical and research interests are the management and genetics of ocular developmental disorders and strabismus. He is a frequent presenter at international ophthalmology meetings, having given more than 250 invited presentations. He has authored over 270 scientific publications, with his most notable contributions being in phenotype-genotype correlations. Dr. Khan has served on the Editorial Board of the journal *Ophthalmic Genetics* since 2009. In addition, he has served on the Editorial Board of the *Journal of AAPOS* from 2010-2014 and has been the Associate Editor of the journal since 2014. Dr. Khan received the American Academy of Ophthalmology Honor award in 2011 and the AAPOS Honor award in 2015. He was elected to the American Ophthalmological Society in 2015. Dr. Khan is an International Consultant for the American Academy of Ophthalmology Basic and Clinical Science Series Part 6 (Pediatric Ophthalmology and Strabismus) for the period 2015-2018.

Dr. Kimberley Tan; BSc (Med), MBBS, FRANZCO trained in Ophthalmology at the Royal Victorian Eye and Ear Hospital, Melbourne. He then undertook fellowships in Cheltenham, UK & at the British Columbia Children's Hospital, Vancouver. He has been the Head of the Department of Ophthalmology at the Sydney Children's Hospital since 2009 and runs the Neuro-ophthalmology and Adult Strabismus clinic at Royal North Shore Hospital, Sydney. He is a Senior Lecturer at both the University of New South Wales and the University of Sydney. He has been a RANZCO appointed Board examiner in Paediatric Ophthalmology and Strabismus since 2010.

Dr. Paolo Nucci; MD, FEBO completed his medical education at the University of Naples in 1983. He then went on to pursue a Residency Program at the University of Milan in 1988 followed by a Fellowship in Pediatric Ophthalmology & Strabismus at the University of Chicago in 1989. He is

currently a Professor at the University of Milan & is the Chairman of the University Eye Clinic at the San Giuseppe Hospital. He is also the Associate Editor of the European Journal of Ophthalmology and International Ophthalmology in addition to being a former member of the Editorial board of Ophthalmic Genetics. Dr. Nucci is a reviewer of the Archives of Ophthalmology, Ophthalmology, American Journal of Ophthalmology, Journal of Cataract & Refractive Surgery, Ophthalmology, JAAPOS, Graefe Archives & International Ophthalmology. He has given Lectures in several Universities in Europe, USA and Asia, in addition to authoring 11 Books and 130 papers that have been reported in PubMed. He is the Senior Author of more than 70 publications. He is the President of the Italian Society of Pediatric Ophthalmology and a former member of the Scientific Bureau of the WSPOS.

CASE 3



Dr. Pradeep Sharma



Dr. Alcina Toscano



Dr. Simon Ko

Dr. Pradeep Sharma is a Professor and the Head of the Section of Pediatric ophthalmology, Strabismus, Neuro-ophthalmology and Oculoplasty at Dr. R. P. Centre for Ophthalmic Sciences, All India Institute of Medical Sciences (AIIMS), New Delhi, India. He graduated from AIIMS in 1979 & pursued an MD in Ophthalmology at AIIMS in 1982. He then went on to become a Member of the National Academy of Medical Sciences, India in 1995, after which he underwent multiple Fellowships for Advanced training in Strabismus in USA (Jules Stein Eye Institute, UCLA, Los Angeles, CA; Wills Eye Hospital, Philadelphia, PA; and Richmond Eye Hospital, Richmond, VA) through the International Strabismological Association in 2001. He then became a Fellow of the National Academy of Medical Sciences, India in 2007.

Dr. Alcina Toscano graduated in Medicine from Faculdade de Medicina de Coimbra in 1984. She completed her Ophthalmology training in 1992, at Centro Hospitalar de Lisboa Central, Lisbon. Since 1999 she is the Paediatric Ophthalmology Head Department at Centro Hospitalar de Lisboa Central. She is a Pediatric Ophthalmology Consultant at Hospital Cuf Descobertas, Lisbon, since 2002. Her clinical expertise includes the evaluation and treatment of amblyopia, pediatric and adult strabismus and pediatric cataracts.

Dr. Simon Ko is a specialist in pediatric ophthalmology, strabismus and general ophthalmology. He is the chief of service of the Ophthalmology Department at Pamela Youde Nethersole Hospital and Tung Wah Eastern Hospital in Hong Kong. Dr. Ko has been working in ophthalmology for 25 years, and he is actively involved in clinical research, teaching, training and examination of ophthalmology in Hong Kong. He is an author and co-author of publications in peer-reviewed journals. Dr. Ko is currently serving on the council of the College of Ophthalmologists of Hong Kong and is past president of the Hong Kong Ophthalmological Association. Dr. Ko has also served in the Scientific Bureau of the World Society of Pediatric Ophthalmology and Strabismus. He received a Distinguished Service Award from the Asia-Pacific Academy of Ophthalmology in 2016 for his active contributions in meetings.

CASE 4



Dr. Ankoor Shah



Dr. Yoshihiro Yonekawa



Dr. Shuan Dai



Dr. Vincent Daien

Dr. Ankoor Shah; MD, PhD; is a Pediatric Ophthalmologist at Boston Children’s Hospital and Mass Eye & Ear. He is also an Assistant Professor of Ophthalmology at Harvard Medical School in addition to being the former Director of the Eye Trauma Service at Massachusetts Eye & Ear. He co-directs the Pediatric Eye Trauma Service at Boston Children’s Hospital.

Dr. Yoshihiro Yonekawa; MD; is an Adult and Pediatric Vitreoretinal Surgeon at Massachusetts Eye and Ear and Boston Children's Hospital. He is also an Instructor of Ophthalmology at Harvard Medical School & serves as the co-Director of the Pediatric Eye Trauma Service at Boston Children’s Hospital.

Dr. Shuan Dai; FRANZCO; Graduated from the Xian Medical University (School of Medicine, Xian Jiao Tong University) after which he pursued his Ophthalmology residency training at the Beijing Medical University and University of Auckland, New Zealand. He is also a Fellow of the Royal Australia & New Zealand College of Ophthalmologists. His areas of Clinical expertise are Paediatric ophthalmology and strabismus surgery, Paediatric neuro-ophthalmology, Paediatric low vision & ROP telemedicine. He is currently a Consultant Ophthalmologist at the Auckland City Hospital & Starship Children’s Hospital, University of Auckland. Dr. Dai is also the Fellowship director for Pediatric Ophthalmology & Strabismus, University of Auckland in addition to being the Chair of the New Zealand Paediatric Ophthalmology Specialist Interest Group. He is an Executive member of the scientific program committee of the Royal Australia & New Zealand College of Ophthalmologists.

Dr. Vincent Daien; MD, PhD, FEBO; is the Head of the paediatric ophthalmology subspecialty at the University Hospital Montpellier, France. He underwent a post-graduation in epidemiology (masters) followed by a PhD thesis in Biostatistics, after which he pursued a post-doc research fellowship at the Save Sight Institute, Sydney. His activity is distributed in clinical practice, teaching, and research. He is also in charge of the pedagogic development of the Orthoptic Department at Montpellier University. His research interest ranges from epidemiology of eye diseases to the evaluation of new devices used in paediatric ophthalmology. He has contributed in international congresses & scientific meetings in addition to being a on the board of the Francophone Association for Paediatric Ophthalmology and Strabismus. He is involved in management of the paediatric department & his practice includes congenital cataract surgery, congenital glaucoma surgery, corneal graft surgery and squint surgery.

CASE 5



Dr. Linda Dagi



Dr. Vincent Paris



**Dr. Jan
Willem Pott**



**Dr. T.
Surendran**



**Dr. Tsuranu
Yokoyama**

Dr. Linda Dagi is the Director of Adult Strabismus and consultant to the Craniofacial service at Boston Children's Hospital. A graduate of Harvard College and Harvard Medical School, she completed a fellowship in pediatric ophthalmology at Boston Children's Hospital and in neuro-ophthalmology at the National Eye Institute, National Institutes of Health. After over a decade in private practice in Atlanta, Georgia she was invited to join the faculty at Boston Children's Hospital in 2002 where she holds the Children's Hospital Ophthalmology Foundation Endowed Chair. Areas of clinical interest are complex strabismus in children and adults, craniofacial disorders, impact of the orbit on ocular alignment, and surgical outcomes. She serves on the editorial board of JAAPOS, is the Chair of the Adult Strabismus Task Force for AAPOS in addition to being a pediatric ophthalmic section head for F1000.

Dr. Vincent Paris is the Head of the Strabismus and Orthoptic Department in Liège University. He is also the Founder and Past President of the Belgian Strabismological Society in addition to being the Founder and Expert for the State Visual Screening Program in children under 3 years of age in Belgium. He is also the Vice President of the European Strabismological Association & is the Chief of the Ophthalmology Department in Paola Princess Hospital.

Dr. Jan Willem Pott underwent his medical training at the Rijks Universiteit Leiden, and his Ophthalmology Residency at the Rotterdam Eye Hospital after which he pursued a fellowship in Pediatric Ophthalmology and Strabismus with Professor Eugene Helveston at the Indiana University in the US. Since 1998 he has been working in the Department of Ophthalmology at the University Medical Centre Groningen in the Netherlands. This is a regional academic hospital serving the Northern and Eastern part of the Netherlands with around 2 million inhabitants. His subspecialties are Neurophthalmology, Strabismus and Paediatric Ophthalmology. He is the manager of the Ophthalmology Residency program at his department. His main topics of research are ocular motility disorders in neurologic patients, metabolic and hereditary optic nerve disease and hereditary retinal disorders.

Dr. T. Surendran is the Vice Chairman and Director of Paediatric ophthalmology at Sankara Netralaya, Chennai, India. He has been in the field of Strabismus and Pediatric Ophthalmology for four decades now & has wide experience with the use of Botox mostly for Hemifacial and Blepharospasm

and Strabismus. He was awarded the Lt. Col. Rangachari Award by the All India Ophthalmological Society (AIOS) for developing a Portable Pediatric Keratometer in addition to receiving a Lifetime Achievement Award from the Strabismological Society of India (SSI).

Dr. Tsuranu Yokoyama is Director of Pediatric Ophthalmology at the Osaka City General Hospital Children's Medical Center, Osaka, Japan. Dr. Yokoyama is also a council member of the International Strabismological Association, the Japanese Association of Pediatric Ophthalmology and the Japanese Association of Strabismus and Amblyopia. He gave the Bielschowsky Lecture titled "Myopic strabismus: A surgical strategy derived from pathophysiological imaging studies" at the 12th meeting of ISA in Kyoto in 2014. Dr. Yokoyama graduated from Osaka City University Medical School in 1978, where he completed his medical training, and received his M.D. degree from Osaka City University Graduate School of Medicine in 1982. His special interests are in strabismus and ocular motility disorders in children and adults.

CASE 6



Dr. Monte Del Monte



**Dr. Fernando
Prieto-Díaz**



**Dr. Venkateshwara
Rao**



Dr. Cumhur Sener

Dr. Monte Del Monte received his medical degree from John's Hopkins University in 1974. He completed a residency in Pediatrics at the Harvard Boston Children's Hospital Medical Center and a residency in Ophthalmology at the Johns Hopkins Wilmer Eye Institute. He also completed a postdoctoral fellowship training in pediatric ophthalmology and strabismus at the National Children's Hospital Medical Center in Washington D.C. Dr. Del Monte has presented 45 invited, guest, keynote and named lectures and published over 100 scientific papers in peer-reviewed journals. He has been the director of the Pediatric Ophthalmology Fellowship training program at the University of Michigan for the past 30 years. He is currently Director of Pediatric Ophthalmology and Adult Strabismus, Skillman Professor of Pediatric Ophthalmology and Professor of Pediatrics and Communicable Diseases at the University of Michigan, in addition to being the Director of Ophthalmology at the Mott Children's Hospital.

Dr. Fernando Prieto-Díaz is currently the Medical Chief of Instituto Oftalmológico Prieto-Díaz, La Plata, Argentina. He was the General Secretary of the Latin-American Council of Strabismus (CLADE) from 2003 – 2010 in addition to being the President of the Argentine Centre of Strabismus (CAE) from 2004 – 2006. He is the Editor in Chief of the REOP (Revista de Estrabismo & Oftalmología Pediátrica) Journal of Strabismus & Paediatric Ophthalmology since 2014. He is also the Strabismus Section Head of the WSPOS Global Consult Bureau.

Dr. Venkateshwar Rao pursued his Ophthalmology training at the R.P. Center, All India Institute of Medical Sciences (AIIMS), New Delhi; following which he underwent a fellowship in Strabismus and Neuro-Ophthalmology under Prof. Prem Prakash from the same institute. He then went on to do a 2nd Fellowship in Pediatric Ophthalmology & Strabismus under the tutelage of Prof. Eugene Helveston from the Indiana University Medical Center, Indianapolis, USA. Dr. Rao is a specialist in Pediatric Strabismus, Adult Strabismus and Neuro-Ophthalmology. In addition to his fellowship training, he also visited various Hospitals in the USA. He served as Head of the Pediatric Ophthalmology, Strabismus and Neuro-Ophthalmology service at L. V. Prasad Eye Institute, Hyderabad, India right from the unit's inception in January 1998 & was with L. V. Prasad Eye Institute till February 2006. With his vast clinical and academic experience, Dr. Rao started Shreya Eye Care Center in March 2006 with a

mission of providing quality care with compassion in the field of Strabismus, Pediatric eye problems and Neuro-Ophthalmology & is presently the Director of the same. He is a present and past member of several prestigious international organizations including AAO, AAPOS, ISA, AIOS, SPOSI, WSPOS & APAO. Dr. Rao has lectured at various Universities in India, USA, Indonesia, Sri Lanka & Bangladesh, covering several topics of Strabismus, Amblyopia, Congenital Cataract and Neuro-Ophthalmology in addition to having published articles in peer reviewed international journals and presented at various international meetings such as AAO, AAPOS, ESA, ISA, WSPOS, APAO & IOA.

Dr. Cumhuri Sener Graduated from the Hacettepe University Medical School, and finished the residency at the Hacettepe University Department of Ophthalmology in Ankara, Turkey. His Postgraduate research was (a) in vision research at the Netherlands Ophthalmic Research Institute with Henk Spekrijse at Amsterdam, the Netherlands and (b) in strabismus at the Wilmer Institute with David Guyton at Baltimore, USA. He worked at the Hacettepe University Department of Ophthalmology from 1991 - 2014. He volunteered as a visiting faculty in the ORBIS project at Chennai, India in 2002, and also multiple times at Baku, Azerbaijan from 2008 - 2013. He is currently engaged in private practice in Ankara, Turkey. His main fields of interest are Adult and Pediatric Strabismus and Pediatric Ophthalmology.

CASE 7



**Dr. Andrea
Molinari**



**Dr. Elias
Traboulsi**



Dr. Fay Cruz



**Dr. Federico
Velez**



**Dr. Massimiliano
Serafino**

Dr. Andrea Molinari is the Program Director Fellowship in Pediatric Ophthalmology and Strabismus at the Fundacion Metrofraternidad, Hospital Metropolitano, Quito, Ecuador in addition to being an Associate Professor Universidad Central del Ecuador and Universidad Pontificia del Ecuador.

Dr. Elias I. Traboulsi is the Head of the Department of Pediatric Ophthalmology and the Director of the Center for Genetic Eye Diseases at The Cleveland Clinic Cole Eye Institute. He is Professor of Ophthalmology at the Cleveland Clinic Lerner College of Medicine of Case University. He is Director of the Center for Graduate Medical Education at the Cleveland Clinic. He has been the Editor-In-Chief of Ophthalmic Genetics since 1992. He currently serves on the editorial boards of Ophthalmology Retina and the Canadian Journal of Ophthalmology and was an editorial board member of the American Journal of Ophthalmology, the Journal of AAPOS, and the British Journal of Ophthalmology. He has authored more than 450 scientific articles and book chapters. His book on "Genetic Diseases of the Eye" first published by Oxford University Press in 1998 is one of the major references on this topic and its second edition was in 2011. His major textbook "Practical Management of Pediatric Ophthalmology and Strabismus" was published by Springer in 2016. He has given more than 20 named Lectures including the American Academy of Ophthalmology "Marshall M. Parks Lecture", and the American Ophthalmological Society's "Frederick C. Blodi Lecture". He is the "2018 Costenbader Lecturer" at the American Association for Pediatric Ophthalmology and Strabismus.

Dr. Fay Charmaine Cruz is the current president of the Philippine Society of Pediatric Ophthalmology and Strabismus (PSPOS). She obtained her medical degree at University of Santo Tomas, Manila. Her residency was at The Medical City in Pasig City and completed her training with fellowships at the University of California, San Diego in Pediatric Ophthalmology and Strabismus. Dr. Cruz has ten years of experience in ophthalmic surgery, with special interest in congenital cataract surgery, strabismus surgery, and retinopathy of prematurity. She is also a practicing physician at the Department of Health Eye Center and actively involved in fellowship training. In addition to her surgical practice, she is also an Associate Professor at the University of the East - College of Medicine and currently completing her Master's Degree in Health Science Education. Dr. Cruz is also a councilor of the Philippine Academy of Ophthalmology and a member of the World Society of Pediatric Ophthalmology and Strabismus (WSPOS) and Asia-Pacific Strabismus and Pediatric Ophthalmology Society (ASPOS).

Dr. Federico G. Velez is an Associate Professor, Division of Pediatric Ophthalmology and Strabismus, Department of Ophthalmology, Duke Eye Center, Duke University, Durham, North Carolina in addition to being an Associate Physician Diplomate, Pediatric Ophthalmology and Strabismus at the Doheny Eye Institute, University of California Los Angeles, Fountain Valley, California. He is the Vice-Chair of the American Association for Pediatric Ophthalmology and Strabismus Adult Strabismus Taskforce, a Member of the American Association for Pediatric Ophthalmology and Strabismus Education Committee, Chairs the International Colombian Ophthalmologists, and is on the American Academy of Ophthalmology Knowledge Base Pediatric Ophthalmology / Strabismus – Member Subcommittee. He is also a member of the Association for Research in Strabismus (Squint Club) , American Association for Pediatric Ophthalmology and Strabismus (AAPOS), World society of Pediatric Ophthalmology and Strabismus (WSPOS), American Academy of Ophthalmology (AAO), Latin-American Council of Strabismus (CLADE), Latin-American Society of Pediatric Ophthalmology (SOPLA), Colombian Society of Pediatric Ophthalmology and Strabismus (ACOPE), Colombian Society of Ophthalmology, European Strabismological Association (ESA), International Strabismological Association (ISA), California Medical Association. He is on the Editorial Board, Journal of The American Association of Pediatric Ophthalmology and Strabismus (J AAPOS), Editorial Board, Journal of the Colombian Society of Ophthalmology, Editorial Board, BioMed Research International (Journal of Biomedicine and Biotechnology), Editorial Board Advisory Panel, Treatment Strategies – Pediatrics, The Cambridge Research Centre in addition to being a reviewer for the British Journal of Ophthalmology, the JAMA Ophthalmology. He has given 360 lectures and presentations, 23 guest / named lectures, has 88 research papers (peer reviewed) in addition to 4 research papers - peer reviewed (submitted), 8 research papers (non-peer reviewed), authored 10 book chapters, has 3 book chapters in press & also has authored 5 letters to the editor. He has 9 papers in preparation (research completed), in addition to 114 abstracts. He has taught / is currently teaching 19 courses at UCLA in addition to performing Community Service at the Care Harbor, LA, Special Olympics World Games. He has also received the Journal of AAPOS Outstanding Reviewer award in addition to the Teaching Award, Jules Stein Eye Institute, UCLA School of Medicine & the AAPOS Honor Award. Dr. Velez's primary focus of research includes understanding the pathogenesis and new approaches to pediatric and adult strabismus and pediatric lens surgery. As a principal investigator he has received grant support from the National Eye Institute, Knights Templar Eye Foundation, Gerald Oppenheimer Family Foundation Center for the Prevention of Eye Disease to develop an electrical-stimulation device to prevent strabismic amblyopia and correct strabismus and strabismus in patients with acquired immune deficiency syndrome, and from Bausch & Lomb, Omerons and Retrophin for research in pediatric cataracts.

Dr. Massimiliano Serafino was born in 1973 in Italy & served in the Army as a Medical Officer after his graduation. He pursued his residency from the University of Milan. His mentor was and is Prof. Paolo Nucci. He went on to do a fellowship in Pediatric Ophthalmology and Strabismus at Storm Eye Institute, MUSC, Charleston, SC, USA studying with Drs. Ed Wilson, Richard Saunders and Amy Hutchinson after his residency. He was also at the Wills Eye Hospital and attended Dr. Alex Levin's Clinic. Dr. Serafino has authored chapters in a few books in addition to publishing peer reviewed

manuscripts & is currently an associate of Prof. Paolo Nucci at the University Eye Clinic, San Giuseppe Hospital, University of Milan, Italy.

CASE 8



Dr. John Ferris



Dr. Josep Visa Nasarre



Dr. Scott R. Lambert



Dr. Seo Wei Leo

Dr. John Ferris trained at the Western Eye Hospital, Addenbrooke's Hospital in Cambridge, Moorfields Eye Hospital and the Royal Children's Hospital in Melbourne. He is a Consultant Ophthalmologist in the Gloucestershire Eye Unit with a special interest in strabismus and surgical training. He has been the Head of the School of Ophthalmology in the Severn Deanery since 2011 and was the Royal College of Ophthalmologists' Lead for National Recruitment of Ophthalmology Trainees between 2001-17. He is the author of 3 textbooks, Basic Sciences in Ophthalmology (BMJ Publishing 2nd ed 1999), Essential Medical Ophthalmology (Butterworth Heinemann 2001) and Strabismus Surgery (Surgical Techniques in Ophthalmology series – Elsevier 2007). Strabismus Surgery was the first video atlas of strabismus surgery. In 2012 he launched SquintClinic.com, which is one of the world's most popular patient information websites for patients with strabismus. In 2014 he developed the Simulated Ocular Surgery website, which demonstrates how high fidelity model eyes can be used to enhance the safety and effectiveness of ophthalmic surgical training. In June 2017 he launched the Simulation Gallery, in association with the American Academy of Ophthalmology, which is a website dedicated to showcasing innovative surgical training techniques from round the world. His current research interests are focused on investigating the impact of surgical simulation on the outcomes of surgery and on the role of "big data" in assessing the outcomes of amblyopia treatment and strabismus surgery.

Dr. Josep Visa Nasarre is a Paediatric ophthalmologist and Strabismologist in addition to being the Co-ordinator of Paediatrics Ophthalmology and Strabismus at the Department at the Ocular Microsurgery Institute (IMO) in Barcelona. He is also the Vice President of the Catalan Ophthalmology Society & the Ex-President of the Spanish and Paediatric Ophthalmology Society.

Dr. Scott R. Lambert is a Professor of Ophthalmology and Paediatrics who specializes in treating eye diseases in children and adults with strabismus. Prior to joining the faculty at Stanford in 2016, he was the R. Howard Dobbs Professor of Ophthalmology at Emory University and the Chief of Ophthalmology at Children's Healthcare of Atlanta. Dr. Lambert graduated from medical school at Yale University and completed a residency in ophthalmology at the University of California, San Francisco. He then completed a fellowship in pediatric ophthalmology at the Hospital for Sick Children in London and in adult strabismus in San Francisco. Dr. Lambert is the co-editor of two books published in 2016

- the 5th edition of the leading textbook in his field - Pediatric Ophthalmology and Strabismus and a book on Congenital Cataracts. He is the author or co-author of more than 200 articles in peer-reviewed journals on a broad range of topics including the treatment of congenital cataracts, strabismus in adults and children, optic disc abnormalities and corneal disorders in children. He has been an invited speaker at pediatric ophthalmology conferences throughout the world including North America, South America, Europe, Asia, Africa, the Middle East and Australia. He has been actively involved in research throughout his entire career and is currently serving as the chairman of the Infant Aphakia Treatment Study - a NIH funded randomized clinical trial comparing the optical treatment of infants after cataract surgery with contact lenses vs. intraocular lenses. From 2013-2015 he served on the executive committee of the Pediatric Eye Disease Investigators Group--a large group of pediatric ophthalmologists who investigate new treatments for ocular disorders in children. He has received the Senior Honor award from the American Academy of Ophthalmology and currently serves as the chairman of their Pediatric Ophthalmic Technology Assessment Committee. He has received a lifetime achievement award from the American Association for Pediatric Ophthalmology and Strabismus.

Dr. Seo Wei Leo graduated from medical school at the National University of Singapore with Gold Medal & Book Prize in Ophthalmology. After obtaining the Fellowship of Royal College of Surgeons of Edinburgh, she completed 2 intensive clinical fellowships in the USA. The first was an ACGME - accredited clinical fellowship at the University of Michigan Ann Arbor, Ann Arbor with Dr Monte A del Monte and Dr S Archer; followed by a stint with Dr Kenneth Wright in Los Angeles. She has since published numerous peer-reviewed articles and book chapters and she is also a reviewer for many journals including Survey of Ophthalmology, British Journal of Ophthalmology. She frequently presents or conducts instructional workshops and has performed live surgery at various international conferences. Prior to starting private practice in 2012, she was Head, Paediatric Ophthalmology and Strabismus, National Healthcare Group Eye Institute and Clinical Lecturer, Faculty of Medicine, National University of Singapore, Yong Loo Lin School of Medicine. Accolades for her research work include The Eye Institute-Pfizer Research Prize for Best Original Paper in 2004 and the best of show at the 2010 Annual Meeting of the American Academy of Ophthalmology. Dr Leo is currently board member, CIRB Centralised Institutional Research Board, Singhealth in Singapore. She is also in the Scientific Bureau of WSPOS and she remains as a committee member of the American Academy of Ophthalmology.

CASE 9



Dr. Quah Boon Long



Dr. Manoj Parulekar



Dr. Hyun Taek Lim

Dr. Quah Boon Long is a senior consultant at Singapore National Eye Centre (SNEC) and Kandang Kerbau Women's and Children's Hospital. He graduated from medical school at National University of Singapore and underwent basic and advanced training in ophthalmology in Singapore before completing his fellowship in paediatric ophthalmology and strabismus at the Hospital for Sick Children in Toronto. He is currently the Head of Clinical Quality at Singapore National Eye Centre. His clinical areas of interest are wide ranging and includes strabismus, general paediatric and adult ophthalmology, cataract surgery in children and adults, and retinoblastoma. He derives energy from an active and sporting lifestyle and still indulges in the occasional competitive swimming and running.

Dr. Manoj Parulekar is an ophthalmologist at the Birmingham Children's Hospital, and Oxford Eye Hospital. He trained in India, Oxford and Toronto. Manoj has a busy clinical practice that includes paediatric and adult strabismus, and most aspects of paediatric eye disorders including cataracts, oculoplastics and neuro-ophthalmology. He also provides a UK national service for retinoblastoma management. He serves on the surgical training faculty and the scientific committee of the Royal College of Ophthalmologists, and is treasurer of the Oxford Ophthalmological Congress. Manoj is actively involved in teaching and overseas projects through the Vision 2020 links programme in India and Africa, and serves on the board of a charity - Sightsavers International.

Dr. Hyun Taek Lim is a Professor at the Department of Ophthalmology, Asan Medical Center, University of Ulsan College of Medicine, which is one the top quality medical institutions in Seoul, Korea. After completion of his ophthalmology residency, Dr. Lim moved to Canada for his pediatric ophthalmology clinical fellowship. He completed the pediatric ophthalmology fellowship in 2006 at the Hospital for Sick Children, University of Toronto. He had headed the Department of Ophthalmology, Asan Medical Center, as chairperson, from 2012 to 2016. He is continuing his clinical services in both pediatric ophthalmology and strabismus and neuro-ophthalmology sections at the Asan Medical Center, University of Ulsan. He is currently professor of ophthalmology in University of Ulsan College of Medicine. His research interests include congenital ocular anomalies, aniridia, genetic eye disorders, strabismus, and a variety of pediatric and adult neuro-ophthalmologic disorders.

CASE 10



Dr. Brenda Breidenstein



Dr. Massimo Busin



Dr. Pravin Krishna Vaddavalli

Dr. Brenda Breidenstein, MD, completed her General Ophthalmology Residency at the University of South Florida in Tampa, Florida. She then underwent a Fellowship Training at the University of California, San Diego with a subspecialty in Pediatric Ophthalmology and Adult Re-alignment in addition to a second fellowship in Pediatric Ophthalmology at the University of Auckland in New Zealand. Dr. Breidenstein currently practices Pediatric Ophthalmology and General Ophthalmology in Wellington, New Zealand. She is involved in education of ophthalmology trainees and is a Senior Clinical Lecturer for the Wellington School of Medicine.

Dr. Massimo Busin, MD, is a Professor of Ophthalmology at the University of Ferrara at Ferrara, Italy and is the Head of the residency program in Ophthalmology at the same University. He also Heads the Ophthalmology Department at Ospedali Privati Forlì at Forlì, Italy. He has completed his residency at the University of Ferrara (Italy) and thereafter went on to pursue a two-year fellowship with Dr. Kaufman at the Louisiana State University, New Orleans (USA). He was employed at the University Eye Hospital in Bonn (Germany) from 1987 to 1995, where he obtained his Professorship in Ophthalmology (1991). He is currently a Clinical Professor at the University of Bonn (Germany), and is an Adjunct Associate Clinical Professor at the Louisiana State University of New Orleans (USA). He has previously held consultant posts in Bloemfontein (South Africa) and Allegheny General Hospital, Pittsburgh (USA). His main research interest is in lamellar corneal surgery.

Dr. Pravin Krishna Vaddavalli, MS, is the Director of the Tej Kohli Cornea Institute in addition to being the Head of the Refractive Surgery, Cataract and Contact Lens Services & is also a Consultant in the Cornea & Anterior Segment Service at L. V. Prasad Eye Institute, Hyderabad, India. He is an alumnus of Bangalore Medical College, and did his internship at Victoria Hospitals and Bowring & Lady Curzon Hospital, Bangalore. Following his Masters in Ophthalmology from Guntur Medical College in Andhra Pradesh, he completed a fellowship in Cornea and Anterior Segment at LVPEI, Hyderabad and subsequently joined the Institute in 2004. In 2011, Dr. Vaddavalli completed a one-year fellowship in Cornea and Refractive surgery at the Bascom Palmer Eye Institute, Miami, USA, which is rated as the #1 institute for Ophthalmology in the USA. He serves as a reviewer for numerous international journals and has over 70 peer reviewed publications and over 300 national and international presentations to his credit & is an active member of the American Academy of Ophthalmology, the American Society for

Cataract and Refractive Surgery, the International Society of Refractive Surgeons, the Cornea Society and the All India Ophthalmology Society and is the Founder & Executive Committee member of the Cornea Society of India. He has devised innovative modifications in lamellar keratoplasty and is involved in research projects in the field of keratoconus, lamellar keratoplasty and refractive surgery. Dr. Vaddavalli's main areas of interest include LASIK and laser surgery, phakic intraocular lenses (ICL), keratoconus, DSEK, DALK, other lamellar corneal surgeries, paediatric cataract, cataract and corneal transplantation.

CASE 11



Dr. Michel Michaelides



Dr. Matteo Scaramuzzi



Dr. Sui Chien Wong

Dr. Michel Michaelides BSc., MB., BS., MD(Res.), FRCOphth., FACS., is a Consultant Ophthalmologist at Moorfields Eye Hospital in the departments of Medical Retina, Inherited Eye Disease and Paediatric Ophthalmology; and is a Professor of Ophthalmology at the UCL Institute of Ophthalmology. He is a recipient of a Career Development Award from the Foundation Fighting Blindness (USA) – an award that is rarely given to non-US applicants; and has gained membership of the Macula Society and Retina Society in the USA. He has undertaken a medical retina and genetics clinical fellowship at Moorfields Eye Hospital, and a combined ophthalmic genetics and paediatric ophthalmology clinical and research fellowship at Casey Eye Institute, Oregon Health and Science University, Portland, Oregon, USA. Dr. Michaelides's clinical and research interests include diabetic eye disease and inherited eye disease in adults and children; with over 300 peer-reviewed publications and 35 book chapters. He is actively involved in retinal clinical trials investigating novel and established therapies, being a principal investigator in 5 on-going clinical trials.

Dr. Matteo Scaramuzzi M.D., is affiliated with the San Giuseppe Hospital, University Eye Clinic, Milan, Italy. Dr. Scaramuzzi acquired his Medical training from the School of Medicine at the San Raffaele University, Milan, during the period of 2008 - 2014 & also pursued a few fellowships simultaneously. In 2011 he pursued an Internship in Anesthesia with Prof. Luigi Beretta, from the Dept of Anesthesia San Raffaele University, Milan, followed by an Internship in General Medicine and Immunology in 2012, with Prof. Maria Grazia Sabbadini, from the Dept of Immunology, San Raffaele University, Milan. He then went on to do an Internship in Ophthalmology with Prof. Francesco Bandello, of the Dept of Ophthalmology, San Raffaele University, Milan from 2012 - 2014 & also pursued an Internship in Ophthalmology, with Maurizio Battaglia Parodi MD from 2013 - 2015, of the Dept of Medical Retina and Retinal Dystrophy, San Raffaele University, Milan simultaneously. Matteo is currently pursuing a Clinical Research Fellowship in Pediatric Ophthalmology and Ophthalmic Genetics (2015 - 2018) from the Cole

Eye Institute, Cleveland Clinic, under Dr. Elias I Traboulsi, in addition to an Ophthalmology Residency Program (2017 - 2018), from the San Giuseppe Hospital, University of Milan, Milan under Prof. Paolo Nucci and Prof. Giovanni Staurenghi. Dr. Scaramuzzi has publications in reputed peer-reviewed journals in addition to Chapters in textbooks of repute.

Dr. Sui Chien Wong MB, BS, FRCSEd(Ophth), FRCOphth, PGC., is a consultant ophthalmologist and Adults and Paediatric vitreoretinal (VR) surgeon at Great Ormond Street Hospital for Children (GOSH), Moorfields Eye Hospital and the Royal Free Hospital in London, UK. He is also affiliated to the NIHR Biomedical Research Centre, Moorfields Eye Hospital & UCL Institute of Ophthalmology. In 2017, he was named in the annual Power List, a global top 50 list of rising stars in ophthalmology. He is among a handful of ophthalmologists in the world with a super-specialty practice in complex paediatric vitreoretinal surgery and retinovascular diseases, in addition to his adult VR work. He is a world leading expert in endoscopic vitrectomy across a spectrum of adult and paediatric diseases. In 2014, he introduced the novel endoscopic vitrectomy for retinopathy of prematurity (ROP) to the UK, making GOSH only one of only two centres in the world with expertise in this treatment. GOSH is now the UK national surgical centre for all patients with ROP retinal detachment in UK, in collaboration with Oxford University, which Dr. Wong leads as Head of ROP Retinal Detachment Surgery. Following his ophthalmology residency at Moorfields Eye Hospital, he undertook vitreoretinal and medical retina clinical fellowships, also at Moorfields, and a further 3 years of paediatric vitreoretinal and retinovascular clinical and research fellowships at Beaumont Hospital, Michigan, and Children's Hospital Los Angeles, USA. He has been awarded over 15 prizes over his career. His clinical and research interests include vitreoretinal surgery in adults and children, paediatric retinovascular diseases, genomic medicine and surgical approaches for gene therapy, and vitreoretinal surgical devices development. Dr. Wong is the UK Chief Investigator and Moorfields Eye Hospital Principal Investigator for the RAINBOW trial, an international randomised controlled trial of intravitreal ranibizimab versus standard-of-care retinal laser, as well as being a coinvestigator in 3 phase I/II gene therapy trials. He has over 30 publications, has written numerous book chapters, and has run over 20 surgical courses as lead or co-instructor both in the UK and internationally. This includes being the current course director at the American Academy of Ophthalmology annual meeting of "Paediatric Vitreoretinal Disorders: Current & Future Management".

CASE 12



Dr. Marcia Tartarella Graduated in Medicine from the Federal University of São Paulo (UNIFESP) in 1985. She then went on to do a Medical Residency Program with a Specialization in Ophthalmology at UNIFESP between 1986 and 1989. Dr. Tartarella then acquired her Masters and PhD in Medicine (Ophthalmology) from the UNIFESP in 1994 & 1999 respectively. Her fields of interest include Congenital Cataract, Prevention of Blindness and Corneal Transplants. She received the Varilux Prize for Ophthalmology from the Brazilian Society of Ophthalmology (SBO), one of the most important Brazilian awards in the medical field, in the year 2000.

Dr. Marco Pellegrini graduated in 2007 and completed his residency program in ophthalmology in 2012 at the University of Milan. In 2013 he concluded his fellowship program at the ocular oncology department of Wills Eye Hospital in Philadelphia under the guidance of Dr. Jerry and Carol Shields.

Dr. Pellegrini currently works as a retina specialist at the Eye Clinic of “Luigi Sacco Hospital” in Milan directed by prof Giovanni Staurenghi where he is also the director of the ocular oncology service. He is currently a member of the main ocular oncology and retina societies and serves as a reviewer for the major international scientific journals. Dr. Pellegrini has been a speaker for several national and international conferences and has written as author/coauthor scientific papers published in peer-reviewed journals.

Dr. Subhadra Jalali, did her MBBS from govt. Medical College Jammu in 1986 and MS from PGIMER, in 1989. She completed two-year fellowship from LVPEI in 1993, and further fellowships in USA in Ocular genetic diseases, Electrophysiology of vision and Posterior Uveitis (1995) and in Retinopathy of Prematurity and Paediatric retinal disorders (1998). Presently she is working as a Consultant at the LVPEI since 1993 and running a very successful exclusive Paediatric retina service. She was amongst the first group of pioneering women in India to go for exclusive Retinal surgery practice that was an exclusive male domain at that time. She has over 550 presentations including orations and 155 publications in

National and International journals and 15 book chapters. She is a Co-investigator in various multicentric international studies. She is the recipient of State, National and International awards including the AAO and APAO Achievement awards, ISCEV travel grant, P. Siva Reddy award to name a few. Her crowning glory is however the more than 350 fellows trained by her in ROP from Mexico to Azerbaijan to Indonesia and Bangladesh besides all over India through one of the first dedicated one month hands-on ROP training program. The IJO platinum award is for her pioneering work published on outcomes of setting up a city-wide ROP program, the first one in India and in most of the countries. She is now working for setting up similar programs in cities and towns of India and also in neighbouring countries. She loves dancing and enjoying various cultures around the world.