

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 Neuroophthalmology, 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 A. Del Monte



Dr. Fernando Prieto-Díaz



Dr. B. Venkateshwara Rao



Dr. E. Cumhur Sener

Dr. Monte A 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.