



Assoc Prof Audrey Chia

MBBS (Hons) , FRANZCO, PhD (NUS)

Senior Consultant
Singapore National Eye Centre

Specialty: Pediatric Ophthalmology & Adult Strabismus, Cataract & Comprehensive Ophthalmology

Sub-specialties: Pediatric Ophthalmology & Adult Strabismus, Cataract & Comprehensive Ophthalmology

Associate Professor Audrey Chia graduated from the University of Sydney and completed her ophthalmology training at the Sydney Eye Hospital. She returned to Singapore in 2000 and worked as an Ophthalmology Registrar at Singapore National Eye Centre (SNEC) before doing a Pediatric Ophthalmology fellowship at the Great Ormond Street Hospital for Children, London. She is currently Head of the Pediatric Ophthalmology and Adult Strabismus Department and Co-Clinical Director of the Myopia Centre at SNEC and a Senior Consultant at the Eye Centre, KK Women's and Children's Hospital.

Associate Professor Chia's research interests include strabismus, amblyopia, retinopathy of prematurity, medical and non-medical control of myopia. She is a Senior Clinical Investigator and co-heads the Myopia research unit at the Singapore Eye Research Institute (SERI).

Associate Professor Chia also helps provide service at SNEC-SERI Visual Electrodiagnostic Laboratory and is a member of the International Society of Electrophysiology Vision (ISCEV). Her interests here include functional changes in myopia and amblyopia, retinal dystrophy and drug-related toxicities. She is Vice-Chair, Faculty and Professional Development, Eye ACP, SingHealth Duke-NUS Academic Medical Centre, and enjoys her role in the development, training and education of young ophthalmologist, ophthalmology residents and scientists at the Singapore National Eye Centre and Singapore Eye Research Institute.

Education

PhD (NUS) (2013)

MBA (2008)

FRANZCO (2000)

MBBS (1992)

Awards

- President Science and Technology Award (2019)
- Distinguished Service Award, Asia-Pacific Academy of Ophthalmology (APAO) (2017)
- Achievement Award, Asia-Pacific Academy of Ophthalmology (APAO) (2017)
- Silver Award, Singapore Health Quality Service Award (2016)
- Gold Award, Singapore Health Quality Service Award (2014)
- Service from the Heart Award, KK Women's & Children's Hospital (2013)
- Silver Award, Singapore Health Quality Service Award (2013)
- Outstanding Faculty Award, SingHealth Residency (Academic Year 2012/2013)
- Innovative Educator Award, SingHealth Residency (Academic Year 2011/2012)
- Service Star Award, Singapore National Eye Centre

Research Interests

Amblyopia
Strabismus
Inherited eye disorders
Myopia

Publications

Chan A, Tan GK, Lon HP, Lim SH, Chia A. Safety and efficacy of chloral hydrate sedation in paediatric sedation for ophthalmic procedures. *Ann Acad Med Singapore* 2017, 46(4): 138-144

Tan AC, Chen L, Png R, Chia A. The diagnosis and assessment of visual function in Singaporean children with electrophysiology: 10-year results. *Doc Ophthalmol* 2016; 132(2): 189-99

Chia A, Lu QS, Tan D. Five-year clinical trial on Atropine for the treatment of childhood myopia (ATOM2): myopia control with 0.01% atropine eye drops. *Ophthalmol* 2016; 123(20): 391-9

Kumaran A, Htoon MH, Tan D, Chia A. Analysis of changes in refraction and biometric parameters in atropine and placebo treated eyes. *IOVS* Aug 2015; 56(9): 5650-5

Lim J, Handa S, Perera C, Lim G, Chia A. The psychological impact of eye drops administration in children. JAAPOS Aug 2015; 19(4): 388-43

Loh KL, Lu Q, Tan D, Chia A. Risk factors for progressive myopia in Atropine Therapy for Myopia (ATOM1 study). Am J Ophthalmol Mar 2015; 159(5):945-9

Sim B, Yap GH, Chia A. Functional and Psychosocial Impact of Strabismus in Asian Children. J AAPOS 2014 April;18(2):178-82

Chia A, Li W, Chua WH, Goon YY, Fong A, Tan D. Changes after cessation of Atropine: ATOM2. Am J Ophthalmol 2014 Feb; 157(2): 451-7

Chia A, Lin XY, Mohamed D, Guzzard G, Ramamurthy D, Quah BL, Chang B, Ling Y, Leo SW, Wong TY, Saw SM. Risk factors for Strabismus and Amblyopia in young Singapore Chinese children. Ophthalmic Epidemiology 2013 Jun;20(3):138-47

Chia A, Chua WH, Cheung YB, Wong WL, Lingham A, Fong A, Tan D. Atropine for the treatment of Childhood myopia: safety and efficacy of 0.5%, 0.1% and 0.01% dosages (ATOM2). Ophthalmology 2012; 119(2): 347-54

Chia A, Dirani M, Chan YH, Gazzard G, Au Eong KG, Selvaraj P, Ling Y, Quah BL, Young TL, Mitchell P, Varma R, Wong TY, Saw SM. Prevalence of Amblyopia and Strabismus in Young Singaporean children. Invest Ophthalmol Vis Sci. 2010 Jul; 51(7):3411-7

Chia A, Chua WH, Tan D. Effect of Atropine on Astigmatism. British J Ophthal 2009 Jun; 93(6): 799-802

Chia A, Guzzard G, Tong L, Zhang X, Sim EL, Fong A, Saw SM. Red-Green Colour Blindness amongst Singaporean Schoolchildren. Clinical & Exp Ophthal 2008; 36: 464-7

Chia A, Roy L, Seenyen L. Comitant Horizontal Strabismus Patterns in Singapore: An Asian perspective. British J Ophthal 2007 Oct; 91(10): 1337-40

Chia A, Jaurigue A, Gazzard G, Wang Y, Tan D, Stone RA, Saw SM. Dominance, laterality and Refraction in Singaporean school children. IOVS 2007 Aug; 48(8):3533-6

Chia A, Luu CD. Electrophysiological findings in patients presenting with nyctalopia. Annals Acad Medicine Singapore. 2006 Dec; 35(12): 864-867

Chia A, Seenyen L, Quah BL. Surgical Experiences with 2 muscle surgery for intermittent exotropia. J AAPOS. 2006 Jun;10(3):206-11

Chia A, Seenyen L, Quah BL. A retrospective review of 287 consecutive children presenting with Intermittent Exotropia in Singapore. JAAPOS June 2005; 9: 257-63

Chia A, Lee V, Graham EM, Edelsten C. Factors related to severe uveitis at diagnosis in children with juvenile idiopathic arthritis in a screening program. *Am J Ophthalmol*, Jun 2003; 135(6): 757-62

Chia A, Johnston K, Martin F. Use of contact lenses to correct aphakia in children. *Clinical and Experimental Ophthalmology* Aug 2002, 30(4): 252-5

Research Trials

- Atropine for treatment of myopia 3: prevention and slowing early myopia in high-risk children (PI)
- APPLE Study: RCT low dose atropine in children with mild-moderate myopia (PI)
- A retrospective study of Pediatric Thyroid Eye Disease (co-I)
- Investigation of genetic basis of Stargardt and ABCA4 related retinal dystrophies (site –PI)
- Strabismus, amblyopia and refractive error in Singapore children (STARS/ SCORM) follow up (co-I)
- Demographics and treatment trends in infectious conjunctivitis in Children (PI)
- Effects of treatment of refractive amblyopia on visual function (PI)
- Effect of treatment on VEP responses in children with refractive amblyopia (PI)ns in an Asian population (2009-2012)