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Neuro-ophthalmic disorders masquerading as benign ophthalmic disease: A wolf in sheep's clothing

Potentially visual threatening or life threatening neuro-ophthalmic conditions may present with benign appearing or mild ophthalmic signs. The general ophthalmologist should be aware of these presentations because earlier diagnosis and treatment can be critical. Prompt neuroimaging directed to the topographically localizing sign is important in the initial management of many neuro-ophthalmic emergencies. The specific learning objectives of this workshop include: 1) To describe specific and potentially dangerous neuro-ophthalmic diseases that may present as more benign conditions to the general ophthalmologist; 2) To list the key and distinctive features of these conditions that should prompt further evaluation; 3) To describe the differentiating clinical and radiographic features of these conditions so that comprehensive ophthalmologists can avoid missing the diagnosis.

Speakers Biography

Andrew G. Lee, M.D. was born in New York City but moved to Charleston, West Virginia in 1969. He graduated valedictorian from Charleston Catholic High School and attended UVA (cum laude, BA in biology). He completed medical school at UVA (Alpha Omega Alpha) in 1989 and internship at UVA affiliated hospital in Roanoke, Virginia followed by ophthalmology residency and was chief resident at Baylor College of Medicine. Dr. Lee completed a Fight for Sight research fellowship and clinical neuro-ophthalmology fellowship at the Wilmer Eye Institute, Johns Hopkins Hospital, in Baltimore, Maryland in 1994. Following fellowship training, He joined the ophthalmology faculty at Baylor and UT MD Anderson Cancer Center in Houston. In 2000, Dr. Lee joined the faculty at the University of Iowa and was promoted to Full Professor in 2007.

In 2009, He returned to Houston to chair the Blanton Eye Institute at Houston Methodist Hospital and is currently Professor of Ophthalmology, Neurology, and Neurosurgery at *Weill Cornell Medical College*; Adjunct Professor at University of Iowa and Baylor College of Medicine and Texas A and M University; Clinical Professor at the University of Texas Medical Branch, UT MD Anderson Cancer Center, and University of Buffalo, SUNY.

He has served on the Editorial Board of 25 journals including *JAMA Ophthalmology*, the *American (AJO)*, *Canadian (CJO)*, and the *Japanese Journal of Ophthalmology (JJO)*, the *Asia Pacific Journal of Ophthalmology*, the *Journal of Neuro-ophthalmology*, *Survey of Ophthalmology*, and *Eye* and was the founding editor in chief of the *Journal of Clinical and Academic Ophthalmology*. He is on the board of and will be the President Elect of the North American Neuro-ophthalmology Society (NANOS).

He has published over 400 peer-reviewed publications, 40 book chapters, and nine full textbooks in ophthalmology. He has been the invited speaker at over 400 national and international eye meetings and has given 12 named lectureships. He has received the American Academy of Ophthalmology (AAO) honor award, senior honor award, secretariat award, and the life honor achievement award. Dr. Lee has a special interest in graduate medical education and has received the resident teaching award seven times at five different academic institutions.

Dr. Kathy Cao first received her Bachelor's degree with distinction in Biochemistry from Queen's University in 2002. She then graduated with her medical degree from the University of Toronto in 2006, and completed her residency training in Ophthalmology within the Department of Ophthalmology and Vision Sciences in 2011. She also completed her Master of Education at the University of Toronto in 2015.

During her residency training, Dr. Cao was the recipient of several honors, including the Kensington Eye Institute resident award for earning the top performance in cataract surgery, and the ASCRS Foundation Resident Excellence award.

She is a comprehensive ophthalmologist with extensive surgical experience providing culturally-sensitive, state-of-the-art, patient and family-centred care in the Greater Toronto Area at North Toronto Eye Care, KEI, Mount Sinai Hospital, North York General Hospital, and Humber River Hospital. She performs many surgeries both cataract, pterygium and minor lid surgeries. She uses the latest technology and techniques to ensure the best results for every patient. She treats glaucoma, retina and cataract patients. She is trained in manual and Femto Laser assisted cataract surgery.

She also has a passion for medical education. She holds a Masters in Education degree and teaches medical students, family physicians, emergency physicians, ophthalmologists and other healthcare professions locally, nationally and internationally. She holds a number of academic roles including associate Director of Undergraduate Medical Education at the University of Toronto and Medical Education Section Editor for the *Canadian Journal of Ophthalmology*.

In addition to her passion for ophthalmological surgery and medical education, She is devoted to community service with the goal of preventing blindness. She volunteers with several non-profit organizations including Orbis and Yee Hong Centre for Geriatric Care, and provides public education on eye health through radio and TV interviews. She is currently leading a multilingual eye health patient education video project providing public education on multiple eye diseases in the top 10 languages most commonly spoken in Canada.

She speaks Cantonese and Mandarin. Dr. Cao's specialties:

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