

5-6 Jan 2023

Red Eyes & Ocular Emergencies

HKAOK Mini-Symposium



2023 - HKAOK Mini-Symposium

Thu 5-Jan-2023

Online Zoom Presentation

9:00-9:30am

AGM online

Members only

9:40am - 11:15am

Red eyes & Ocular Emergency in Animals

Dr Derek Chow

Specialist in Veterinary Ophthalmology

11:15am - 11:30am

Break / Product seminar

11:30am -1:00pm

Red Eyes & Ocular Emergency in Humans

Dr Jennifer Shum

Specialist in Ophthalmology

Fri 6-Jan-2023

Red Eyes and Ocular Emergencies Workshop

Venue – HK Scout Centre Room 1104

CE Fee: \$500 non-members

\$300 associate members

Waived for HKAOK members

9:30am – 11:00am (Group 1)

11:00am – 12:30am (Group 2)

Workshop fee: \$400 (non-members)

\$200 associate members

Waived for HKAOK

Physical event to be hosted according to HK government restrictions

CE: https://us02web.zoom.us/webinar/register/WN_w2zneL_AQJm7CcaH5rpXwQ

Workshop <https://forms.gle/GgFtoQYzozmfMmj68>

CE



Workshop



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Title: Red eyes and ocular emergencies in animals and humans

Speakers: Dr Derek Chow (Specialist in Veterinary Ophthalmology) and Dr Jennifer Shum (Specialist in Ophthalmology)

Date: Thu 5-Jan-2023

Time: 9:35am – 1:00pm

Modality: online Zoom with recording available 3 months

CPD: Pending

Abstract:

Red eyes and ocular emergencies are often occurrences in the community. Optometrists as primary eyecare providers need to be updated with the prompt and timely management for eye and vision preservation for red eyes and ocular emergencies. Comparison of human eye versus animal eyes allows for better understanding of the mammary anatomical structures, ocular immune systems, and management of common causes of ocular redness and ocular emergencies. Veterinary ophthalmologist Dr Derek Chow will present on red eyes and ocular emergencies in animals while ophthalmologist Dr Jennifer Shum will review the common causes of red eyes and current standard for prompt management of ocular emergencies in human. Hands-on for clinical care management of red eyes and ocular emergencies will be demonstrated in the workshop.

Dr Derek Chow BVSc (HONS), DACVO, DAiCVO, MANZCVS, MRCVS
Specialist in Veterinary Ophthalmology

Animal eyes are no different to human eyes with similar anatomical structures- such as we all have eyelids, conjunctiva, cornea, iris, lens, vitreous, retina, optic nerve and iridocorneal angle. However, there are variation in these anatomical structures that allows certain species to see or function better in specific environmental condition.

Apart from similar anatomical structures, animal also has similar inflammatory and immune responses to insults as humans. However, these responses can vary between animal species.

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In this short presentation, we shall introduce ocular diseases that can lead to red eye and should be familiar to human optometrists and ophthalmologists. Treatment will also be discussed, which you may find the therapies very similar to humans.

In the other half of this presentation, I shall present to you, possible ocular emergency in animals. The facial conformation of some of the species of animal or breeds of dog, may predisposed them to certain ocular trauma which require certain emergency therapy to preserve vision.

Profile:

Dr. Chow graduated from the University of Queensland, Australia. Dr. Chow is a member of the Australian College of Veterinary Scientists and the Royal College of Veterinary Surgeons. He is a Diplomate of the American and Asian College of Veterinary Ophthalmologists. He is the only Veterinary Ophthalmologist in Hong Kong that has specialty recognition in both Asia and North America.

Dr. Chow has lectured and presented in Hong Kong, Australia, Thailand, Taiwan, South Korea, China, Japan and the United States of America. He received intensive training in vitreoretinal surgery with the European Vitreoretinal Training School- one of the premier vitreoretinal surgery training schools for humans.

Dr. Chow is a consultant in veterinary ophthalmology for horses at the Hong Kong Jockey Club and Hong Kong's fauna at the Kadoorie Farm and Botanical Garden in Hong Kong.

Dr. Chow is a member of the Animal Subjects Ethics Sub-Committee at Hong Kong Polytechnic University, overseeing research requiring the usage of animals. He is also one of the members on the core advisory board of the Animal Watch Program for the Hong Kong Police.

Dr. Chow has collaborated with the Hong Kong University of Science and Technology to investigate hydrogel usage on canine dry eye.

Dr. Chow's interest in Veterinary Ophthalmology includes medical therapy for glaucoma, ways to monitor the progression of glaucoma, glaucoma surgery, cataract surgery, and corneal reconstruction surgery.

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**Dr Jennifer Shum Wei Huen MBBS(HK), MRCSEd(Ophth), FCOphthHK, FHKAM(Ophthalmology)
Specialist in Ophthalmology**

Acute red eye is a common presentation of ocular emergencies. Common causes are discussed, including ocular trauma, chemical injury, ocular foreign bodies, corneal abrasion, keratitis, uveitis, acute angle glaucoma, endophthalmitis etc. Symptoms and signs are highlighted, together with an overview of management.

Profile:

Dr. Jennifer Shum graduated medical school from the University of Hong Kong. She received her initial ophthalmology training at United Christian Hospital. She further pursued the field of glaucoma at the University of Hong Kong and enjoyed lecturing and research work as Clinical Assistant Professor. She then served at Caritas Medical Centre as Associate Consultant and glaucoma team head. She is currently at private practice.

She has been awarded the Health & Medical Research Fund and is a recipient of the Ho Hung Chiu Medical Education Foundation Scholarship. She enjoys singing and swimming in her spare time.

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Title: Red eyes and Ocular Emergency Workshop (1.5 hours)
Date: Fri 6-Jan-2023
Venue: Hong Kong Scout Center, Room 1104
Duration: 1.5 hours
CPD: Pending
Presenters: Dr Jessica Neuville OD, FAAO and
Dr Helen Eng OD, FAAO

Abstract:

Workshop aims to develop optometrists' understanding and management of ocular emergencies knowledge. Hands-on experience on irrigation, Morgan's Lens, pH strips, foreign body removal and eye patching. Review of clinical protocol for ocular chemical burns for in-office assessment and management will be presented. Training tips and trial of the Morgan's lens will be demonstrated. Foreign body removal with the Alger brush burr for rust removal will also be reviewed.

Speakers Profile:

Dr Jessica Neuville OD, FAAO

Dr. Neuville is a Clinical Associate at the Hong Kong Polytechnic University. She received her Doctor of Optometry degree from the University of California, Berkeley and completed a residency in ocular disease and low vision. Her areas of teaching include clinical skills, ocular pathology and ocular pharmacology. She was the recipient of the Faculty Prize for Outstanding Achievement in Teaching in 2021 and currently serves on the education committee of the World Council of Optometry.

Dr Helen Eng OD, FAAO)

She is currently in private practice and part time at the Optometry Clinic of the Hong Kong Polytechnic University. She graduated from the School of Optometry from the University of Montreal in Canada. She is licensed in Hong Kong and in Quebec (Canada). Her interests include vision rehabilitation, dry eye management, color vision and drivers vision. She is currently the President of the Hong Kong Academy of Orthokeratology and advocates primary eye care.

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Product Demonstration by Skyview & ViewGear



<https://youtu.be/kitZze0qUJs>

Trial registration: <https://forms.gle/RDHgh92xpUTmzn1A>

DRL Booth Double Reservoir Lens by Precilens & Innoledge



> Cont Lens Anterior Eye. 2022 Aug 22;101749. doi: 10.1016/j.clae.2022.101749. Online ahead of print.

The effect of corneal power distribution on axial elongation in children using three different orthokeratology lens designs

Zhe Zhang¹, Jiaqi Zhou¹, Li Zeng¹, Feng Xue¹, Xingtao Zhou¹, Zhi Chen²

Affiliations + expand

PMID: 36008212 DOI: 10.1016/j.clae.2022.101749

Abstract

Purpose: To investigate the correlation between spatial corneal power distribution and axial length (AL) elongation using three ortho-k lens designs by a unified mathematical method.

Methods: A total of 137 subjects were included: 42 with Euclid lenses, 28 with DRL lenses, and 67 with CRT lenses. AL elongation, Xmax, Ymax and power exponent were compared among the three groups.

Come and learn more about DRL