Deployment of a ROTA-based Screening Program for Prevention of Glaucoma Blindness 利用ROTA 的篩查計劃以預防青光眼失明

by Professor Christopher K.S. Leung

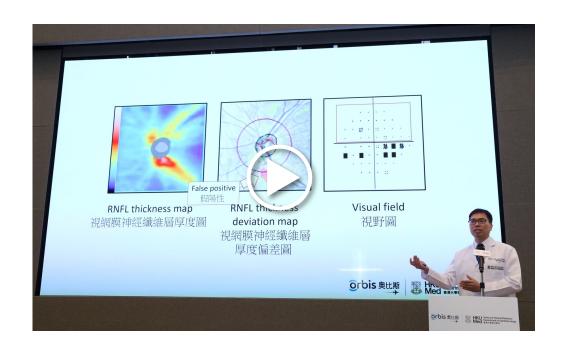
Medicine; Department of Ophthalmology

Project No.: KE-SI-2022/23-60

Strategic Theme: Health and Medical Technologies



Video: Understand ROTA in 2 minutes





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No. of Views: 16



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Media Coverage







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眼壓測試

角膜及 黄斑檢查

光學 斷層掃描

青光眼有什麽治療方案?

使用降低眼壓的眼藥水或口服降眼壓的藥品

激光治療,包括激光小梁成形術和激光透鞏

的治療方案包括:

視力檢查



Poster











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KE Outcomes and Impact

- Glaucoma, the leading cause of irreversible blindness, often goes undetected. Current methods of diagnosing glaucoma can be challenging, even for experienced eye doctors. To address this, an innovative project has used a new technology known as ROTA to screen Hong Kong residents for glaucoma. This project aims to identify and treat glaucoma at an early stage to prevent permanent vision loss.
- The project, which started in mid-June 2023, has already achieved some success. Over 100 individuals have received a comprehensive eye exam and ROTA, which has helped identify patients with glaucoma, narrowed anterior chamber angles, and vision-disabling cataracts, who were then referred for further assessment and treatment.
- In addition to providing these critical services, the project is also focused on education. The general public is being educated about glaucoma through online media, print media, and TV and radio broadcasts. The message is clear: glaucoma can lead to vision impairment, and early screening is essential.
- The project has benefited not just the general public, but also eye care professionals, medical students, and research postgraduates. Professionals are mastering a new screening model for glaucoma, medical students are learning the principles and techniques of eye examinations, and research students are developing new AI models for detecting glaucoma.
- By December 2024, the project aims to complete eye exams for another 3000 individuals. This innovative approach is setting a new standard for primary eye care and is paving the way towards better detection and treatment of glaucoma.



知識交流的成果和影響

- 青光眼是導致不可逆性失明的主要原因,但常常未被發現。即使對於經驗豐富的眼科醫生來說,目前診斷青光眼的方法也具有挑戰性。為了解決這個問題,一個創新項目使用了一種名為ROTA的新技術來篩查香港居民是否患有青光眼。該項目旨在早期發現並治療青光眼,以防止永久性視力喪失。
- 該項目於2023年6月中旬啟動,目前已經取得了一些成功。超過 100人接受了全面的眼科檢查和 ROTA,這有助於識別患有青光眼、前房角狹窄和視力障礙性白內障的患者,然後將他們轉診接受進一步評估和治療。
- 除了提供這些關鍵服務外,該項目還關注教育。公眾正在通過網絡媒體、印刷媒體、電視和廣播接受有關青光眼的教育。信息很明確:青光眼會導致視力障礙,早期篩查至關重要。
- 該項目不僅使普通公眾受益,還使眼保健專業人士、醫學生和研究生受益。 專業人士正在掌握新的青光眼篩查模型,醫學生正在學習眼科檢查的原理和 技術,研究生正在開髮用於檢測青光眼的新人工智能模型。
- 到2024年12月,該項目的目標是為另外3000人完成眼科檢查。這種創新方法 為初級眼科護理樹立了新標準,並為更好地檢測和治療青光眼鋪平了道路。

Knowledge Exchange Activity: Vision matters: Glaucoma Al-ROTA Screening Project for 50+ Launch Ceremony











Knowledge Exchange Activity: RTHK radio broadcasting

HKU, Orbis, plan large-scale glaucoma testing 🞧 Listen 📑

The University of Hong Kong and Orbis have announced Hong Kong's first large-scale eye screening project for glaucoma. This will involve the deployment of new technology developed by the university's medical school that offers more accurate detection of early glaucoma. Ada Au reports:

Early glaucoma treatment can help prevent blindness 🕠 Listen

More than 3,000 public housing tenants aged 50 or above will be invited at random to undergo the free eye tests in the glaucoma screening project. Clinical Professor Christopher Leung, chair of the university's Department of Ophthalmology, said they hoped to detect the eye condition at an early stage, to slow down the rate of deterioration and help prevent blindness in patients. He told Vicky Wong about the prevalence of glaucoma in the city:

News Programmes - RTHK

Knowledge Exchange Activity: Television broadcasting



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2023-07-07

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及早發現青光眼才可安排適切治療,對保住患者的視力甚為關鍵。有機構在全港多區推行大型的青光眼篩查計劃,且聽港大醫學院眼科學系系主任梁啟信介紹活動內容。此外,嘉實也會解 說新的檢測技術,並細談青光眼對視力的影響與病症「高危一族」。 每集內容 | 快樂長門人 | TVB 無綫電視



Original Sized Photos

Shared drive link of the most representative photos:

<u>Deployment of a ROTA-based Screening Program for Prevention of</u> Glaucoma Blindness

