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The Hong Kong Jockey Club Community Project Grant



香港賽馬會慈善信託基金  
The Hong Kong Jockey Club Charities Trust

# The 9th Global Conference of the Alliance for Healthy Cities

“SMARTER HEALTHY CITIES BEYOND COVID-19”

3-5 November 2021

## Preventable visual Impairment in ageing population- community based primary eyecare project in Hong Kong

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THE HONG KONG  
POLYTECHNIC UNIVERSITY  
香港理工大學



眼科視光學院  
SCHOOL OF OPTOMETRY



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## The 9th Global Conference of the Alliance for Healthy Cities

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葵青安全社區及健康城市協會  
KWAI TSING SAFE COMMUNITY AND HEALTHY CITY ASSOCIATION



THE HONG KONG  
POLYTECHNIC UNIVERSITY  
香港理工大學



眼科視光學院  
SCHOOL OF OPTOMETRY

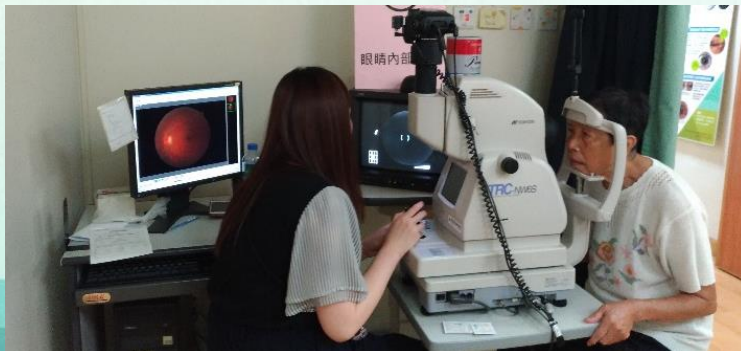
# Kwai Tsing Signature Project Scheme Optometric/Ocular Examination

- One of the community health care services in Signature Project Scheme (Kwai Tsing District)
- Organized by Kwai Tsing Safe Community And Healthy City Association & co-organized by The Hong Kong Polytechnic University
- Provide one-off optometric/ocular examination to Kwai Tsing residents aged 50 or above
- Service period: Jan 2015 – Dec 2020



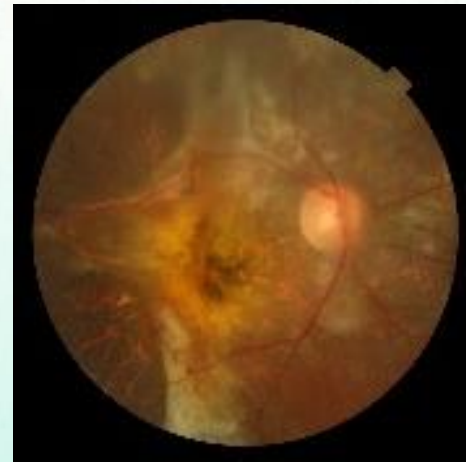
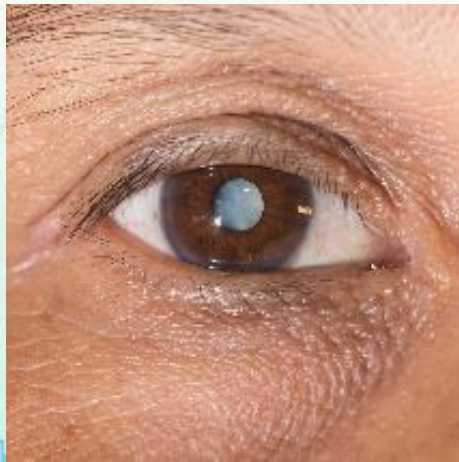
# Optometric/Ocular Examination

- Refraction & Visual Acuity
- Visual Functions
- Ocular Health



# Optometric/Ocular Examination

- Glasses dispensing  
Subsidy of one pair of corrective glasses for eligible citizen  
(Short/Long- sightedness, Astigmatism, Presbyopia)
- Refer to other specialists if necessary (e.g. Ophthalmologist)



Service Period: Jan 2015 to Dec 2020

Total number of beneficiaries:

		Percentage
Number of users	<b>12,914</b>	
Number of corrective glasses prescribed	6,915	<b>54%</b>
Number of referrals to ophthalmologist	1,318	<b>10%</b>



## Common reasons of referral to Ophthalmologist

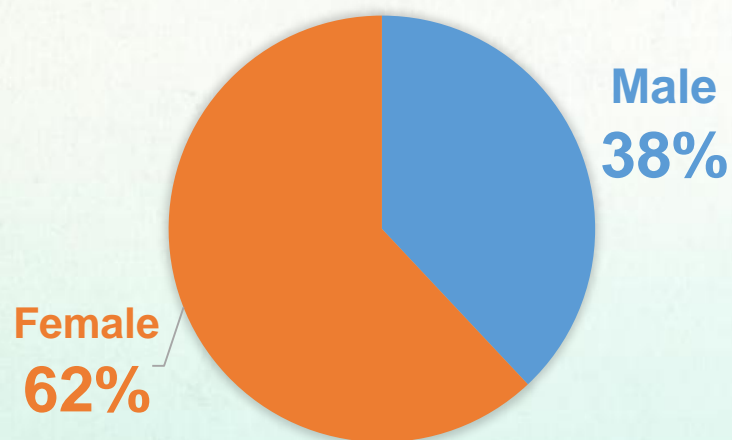
Ocular Conditions	Quantity	Percentage (over 1318 cases)
Significant Cataract	579	44%
Glaucoma-suspect	279	21%
Retinal lesions	206	16%



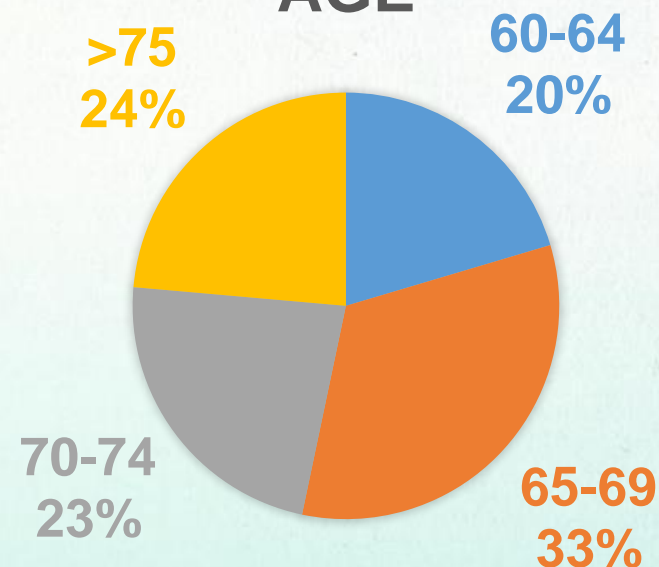
## Statistical Analysis

- Only participants aged 60 years or above
- 8899 citizens (visit period: 2015-2019)

### GENDER

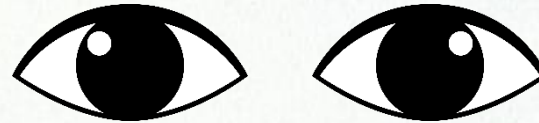
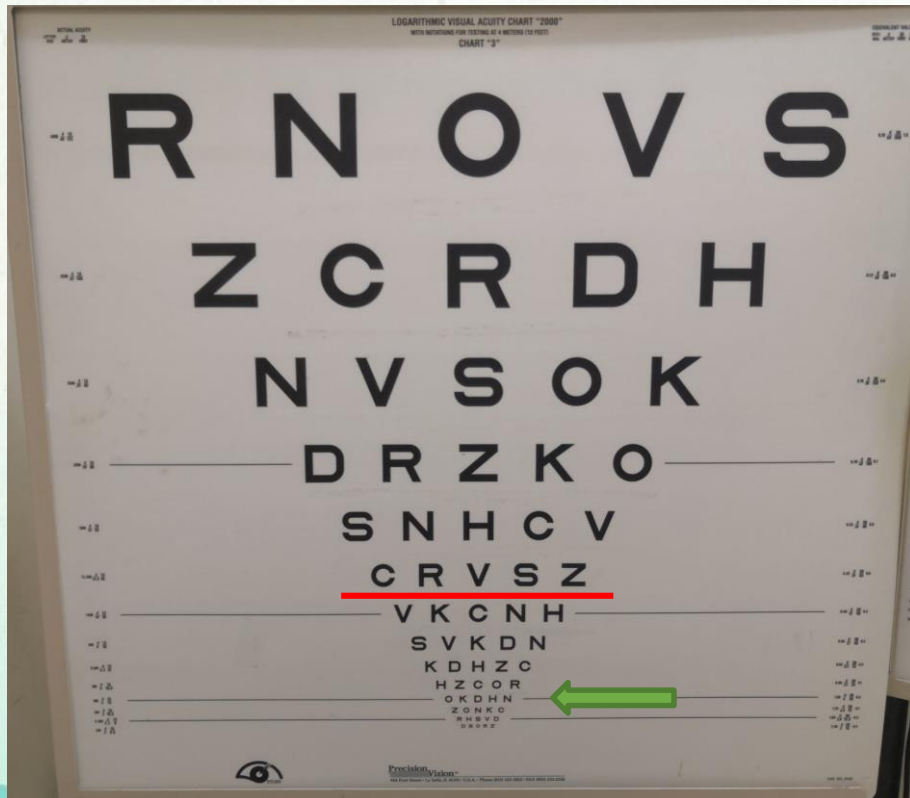


### AGE



# Visual Impairment (VI)

- Visual Acuity (VA) worse than 6/18 (WHO)

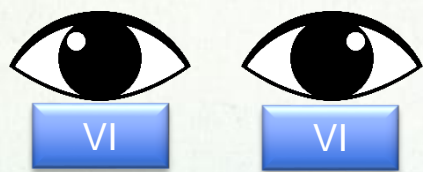




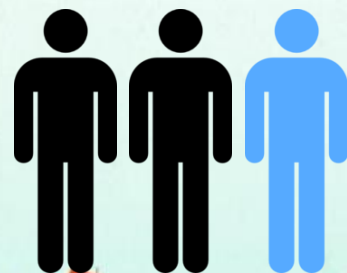
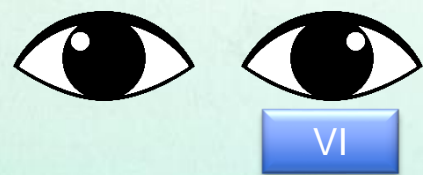
## Visual Impairment (VI) ratio

- Visual Acuity (VA) worse than 6/18 (WHO)
- Presenting Visual Acuity

Better eye: 17%



Worse eye: 39%



## Visual Impairment

- Prevalence increases with age
- Corrective glasses improve vision of the elderly significantly



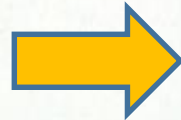
Corrective glasses decrease Visual Impairment percentage significantly (reduce 65-76%)

Presenting VA

Best corrected VA

- Better eye

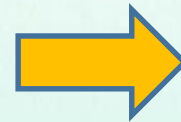
17%



4%

- Worse eye

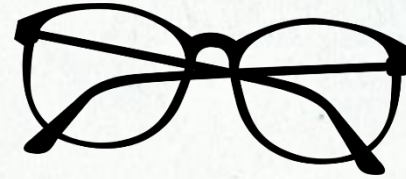
39%



14%



## Visual Impairment



- Mainly due to uncorrected refractive error
  - Corrective glasses improve vision of the elderly significantly
- Other reasons: Ocular diseases
  - Cataract
  - Maculopathy
  - Glaucoma
- Low Vision
  - Best-corrected vision or visual function is worse than standard, which cannot be corrected by surgery or other methods
  - Vision rehabilitation
    - Optometrist prescribes visual aids for patient's daily activities



# Kwai Tsing Signature Project Scheme

## Optometric/Ocular Examination

- Uncorrected refractive error is the main reason of visual impairment
- Wearing suitable glasses is an easy and effective way to improve vision, reduce prevalence of visual impairment and the related risks (e.g. fall)
- Timely detection and management through regular eye examination is suggested
- Should increase awareness of eye conditions and importance of regular eye examination in the older population



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Thank you  
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your attention!

