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The Burden of Eye Disease & amp; Eye Care Utilization Pattern In Patients At An Asian Free Healthcare Clinic

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INTRODUCTION

- Visual impairment decreases quality of life, impacts health outcomes, and places substantial economic burden in the United States.^{1,2}
- Racial/ethnic disparities exist in the rates of eye disease and eye care utilization, with Chinese Americans having lower rates of utilization than African Americans and whites.³⁻⁵
- To meet the eye care needs of Sacramento's large Asian community, U.C. Davis Eye Center and Paul Hom Asian Clinic (PHAC) partnered together to offer nocost ophthalmologic services for underserved Asian Americans and immigrants.
- There is limited data examining patterns of eye disease prevalence and eye care utilization for highrisk populations in an Asian free healthcare clinic setting. Our study aims to understand these patterns at Paul Hom Eye Clinic and identify potential barriers related to follow-up management.⁶

METHODS

- Subjects were obtained from a medical record database. Participants met inclusion criteria if they had at least one visit to the ophthalmology clinic between 2015-2019.
- This two-part study includes a retrospective chart review looking at the prevalence of eye diseases diagnosed at Paul Hom Eye Clinic, followed by a crosssectional telephone survey assessing participants' utilization of eye care services prior to and following their clinic visit.
- Primary outcome measures were further stratified by potential predisposing and enabling factors. The second phase of the study also assessed participants' perceived barriers to follow-up care.

The Burden of Eye Disease & Eye Care Utilization Pattern In Patients At An Asian Free Healthcare Clinic Betty Hom¹, Vivian Vuong MD², Lawrence Cheung¹, Michele C. Lim MD² ¹University of California Davis, School of Medicine; ²Department of Ophthalmology & Vision Science, University of California Davis, Sacramento, CA

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Phase I	Disease Category	Diagnosis	Prevalence
	Refractive Diagnosis	Uncorrected refractive	40%
Retrospective chart review		Uncorrected Presbyopia	14%
 Data collected from charts: Demographic information Dx of eye conditions Insurance Status Outcome measure: eye disease prevalence Compared prevalence between insured vs uninsured (analyzed with two tail proportion testing in STATA) 	Lens Diagnosis	Non-visually significant cataract	47%
		Visually significant cataract	14%
	Corneal Conjunctival Problems	Dry Eyes	26%
		Pterygium	7%
	Glaucoma	Glaucoma Suspect	8%
		Narrow Angles	5%
		Ocular Hypertension	3%
		Open Angle Glaucoma	12%
	Retinal Problems	DM without retinopathy	12%
		Non-proliferative DMR	4%
		Moderate non-proliferative DMR	1%
		Proliferative DMR	2%
A Ophthalmology Screening 服料檢査 Do thị lực Kuaj Qhov Muaj	 Insured patient glaucoma suspective Uninsured had 	were insured (60%) than is were diagnosed more ect (12%, p=.02) a higher percentage of p nsion primary open angl	frequen people d

- Recruiting interpreters
- Informed consent
- Telephone survey
- Multivariable logistic regression analysis



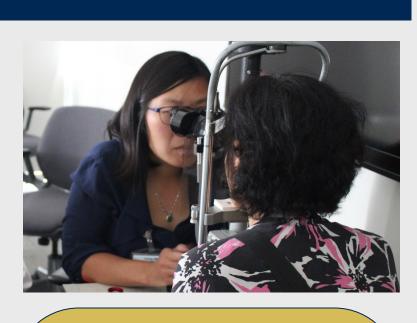
• Referrals for ophthalmic care

Related Factors

- ethnicity, country of birth,
- Enabling factors: socioeconomic language proficiency

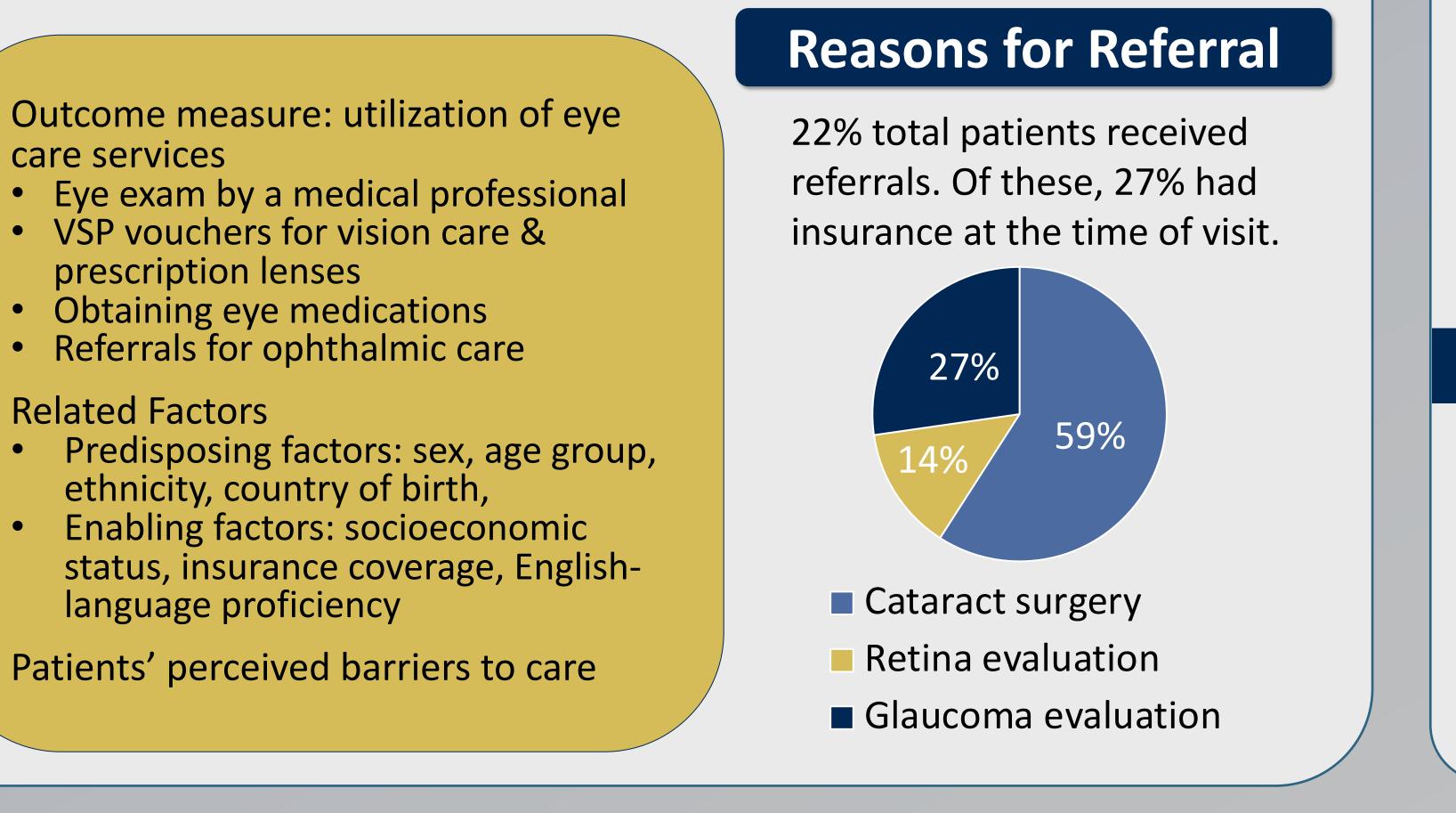
Patients' perceived barriers to care

RESULTS



DEMOGRAPHICS

- 102 Subjects
- 41 F & 61 M
- Age 17-82 (mean age 60)
- Mean vision:
- 20/30 OD 20/38 OS
- Mean IOP: 14 mmHg OU
- ed (40%). y as being a
- agnosed with na (7%, p=0.04)





DISCUSSION

- Most diagnoses did not yield statistically significant differences between insured and uninsured patients. Lack of insurance may not be the primary reason why patients seek eye care at PHAC.
- Findings from Phase I provide useful insight to the development of appropriate screening and educational programs for this population
- Findings from Phase II can elucidate factors that drive disparities in eye care utilization. Understanding related barriers can guide specific practices and interventions for improving access, utilization, and quality in care.⁷
- Study limitations (smaller sample size, diagnoses reported in charts, questionnaire design, participant responses)

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