

## Ayah Abdelgawad

Traditional Class of 2024

**Hometown:** Astoria, Queens

**Undergrad:** Rutgers University

**Major:** Kinesiology and Health

**Favorite Subject:** Dry Eye

**Optometry Goal:** Open a private practice with my best friend

**Favorite food:** Italian

**Hobby:** Playing beat saber on VR

**Last Show I binged:** YOU



## Laine S. Higa

Class of 2014, Illinois College of Optometry

**Hometown:** Kāneʻohe, Hawaiʻi

**Undergrad:** Pacific University

**Major:** Cellular & Molecular Biology

**Ocular Anomaly:** Deuteranomalous trichromat

**Interesting Fact:** I'm able to identify the make and model of commercial jetliners

**Current Libation of Choice:** A glass (or bottle) of Chianti Classico Riserva D.O.C.G.

**Don't be Fooled! Walking the Talk and Fixating on the Important Stuff in a Case of Oculocutaneous Albinism**

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**Demographics**

80 yo retired caucasian female

**Chief complaint:** Reports difficulty reading small print at the supermarket and seeing cards when playing card game, "Bridge"

**History of present illness**

**Character/signs/symptoms:** Blurry vision at near

**Location:** both eyes

**Severity:** moderate

**Nature of onset:** longstanding

**Duration: Frequency:** constant

**Exacerbations/remissions:** congenital nystagmus; relief with gaze in left head tilt (null point)

**Relationship to activity or function:** tasks at near

**Accompanying signs/symptoms:** significantly reduced vision; patient presents with a mobility cane but reports difficulty navigating environment.

**Patient ocular history**

Oculocutaneous albinism, Congenital nystagmus, s/p CE c PCIOL OD, OS 2 year ago

**Family ocular history**

(-) Glaucoma (-) Retinal disease

**Patient medical history**

Osteoarthritis, Depression, Overactive Bladder/bladder infections, Muscle pain

**Medications taken by patient**

Meloxicam 7.5 mg, Lexapro 10 mg, Clonazepam 1mg, oxybutynin chloride ER 5 mg, baclofen 10 mg, nitrofurantoin, monohydrate/macrocrystals 100 mg capsule

**Patient allergy history**

NKDA

**Family medical history**

No known family history

**Review of systems**

**Constitutional/general health:** denies

**Ear/nose/throat: Cardiovascular:** denies

**Pulmonary: Endocrine:** denies

**Dermatological:** denies

**Gastrointestinal:** denies

**Genitourinary:** denies

**Musculoskeletal:** denies

**Neurologic:** denies

**Psychiatric:** denies

**Immunologic:** denies

**Hematologic:** denies

**Mental status**

**Orientation:** oriented to person, place, and time

**Mood/Affect:** appropriate

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## Clinical findings

**BVA:**

	<u>Distance</u>	<u>Near</u>
OD:	20/80-1 PHNI	0.4/0.5M
OS:	20/80-1 PHNI	0.4/0.5M

### Pupils:

**OD:** PERRL Round/ 1+ Direct/ (-) APD

Bright illumination: 3mm

Dark illumination: 4.5mm

**OS:** PERRL Round/ 1+ Direct/ (-) APD

Bright illumination: 3mm

Dark illumination: 4.5mm

### EOMs:

**OD:** Full; right beat nystagmus; null point- 20 degree left head tilt

**OS:** Full; right beat nystagmus; null point- 20 degree left head tilt

**Confrontation fields:** Grossly Full with some difficulty fixating OD, OS

**Hirschberg:** symmetric

<b>Subjective refraction:</b>	<u>VA Distance</u>	<u>VA Near</u>
OD: +1.00-1.50x110	20/80-1	0.4/0.5M
OS: +1.00-1.50x063	20/70+2	0.4/0.5M
ADD: +3.50		

### Slit lamp:

Adnexa: normal; lids and lashes normal OU

Conjunctiva: white and quiet bulbar conjunctiva; pink and quiet palpebral conjunctiva OU

Cornea: normal endothelium, epithelium, stroma and tear film OU

Anterior Chamber: deep and quiet OU; VH: 4 T and N OU

Iris: (+) iris translucency with retroillumination; flat OU

Lens: PCIOL in place, trace PCO OU

Vitreous: clear OU

**IOPs/method:** 12/12mmHg Goldmann

### Dilated Fundus Exam:

Optic Nerve: distinct margins with pseudo pallor, C/D ratio 0.1/0.1, anomalous trifurcation of vessels exiting cup OU

Maculae: flat and intact (-) FR (+) foveal hypoplasia OU

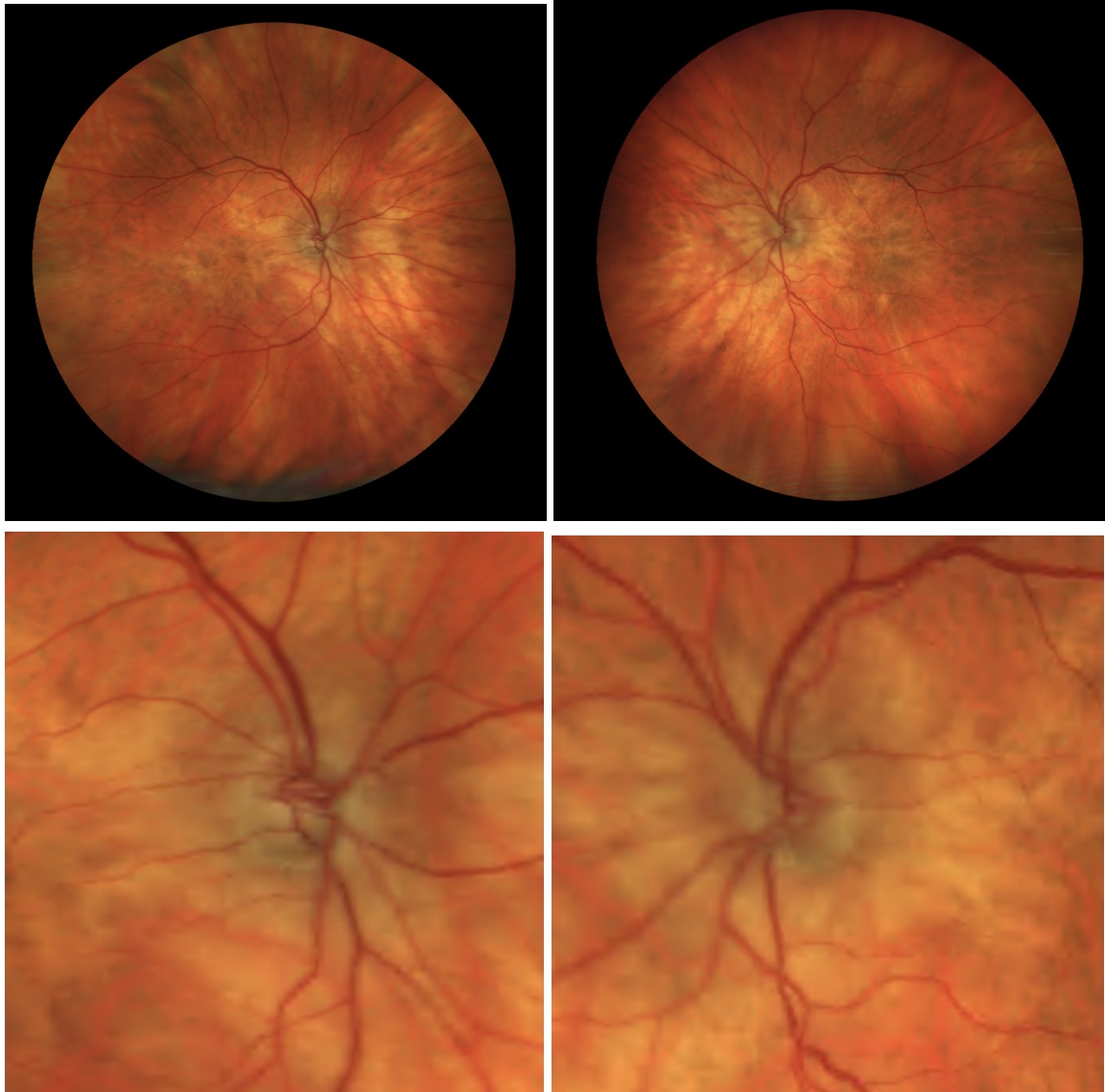
Retina: blonde fundus OU

Vessels: normal course and caliber OU

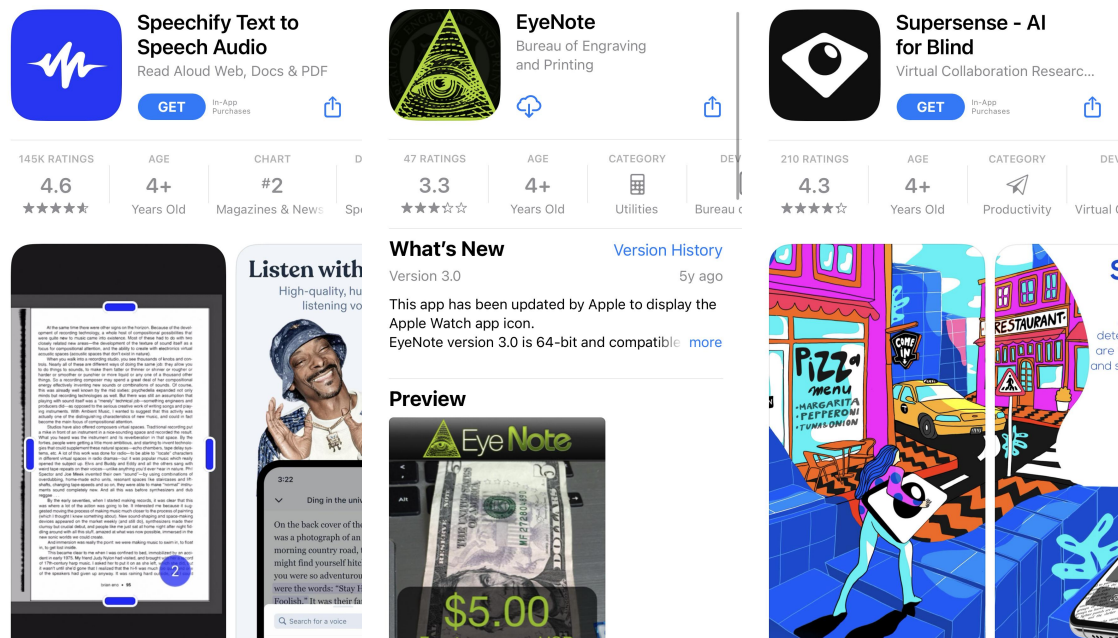
Periphery: flat and intact 360 (-) breaks or detachments OU

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**Case Images:**



**Image 1:** Widefield colored fundus photos OD and OS, respectively and 20 degree colored fundus photo OD and OS, respectively demonstrating pseudopallor and trifurcation of the vessels of the optic nerves bilaterally and blonde fundi OU



**Image 2:** Smartphone Apps shown to the patient in order to help her navigate her environment more effectively. *Speechify*, *EyeNote*, and *Supersense* from left to right.

## Case Management Summary

### 1. Oculocutaneous Albinism (E70.329), OD, OS

Reduced acuity due to foveal hypoplasia and congenital nystagmus. Null point: 20 degree left head tilt. BCVA: 20/80 OD and 20/70 OS. Reported difficulty using mobility cane.

Patient educated about the condition. Patient scheduled with Vision Rehabilitation (VR) and Orientation and Mobility (OM) for evaluation of magnifying devices, glare control, and retraining with mobility cane. Given the patient's technology literacy, the patient was provided a list of applications for text-to-read, magnification, and money reading to use prior to consultation.

### 2. Congenital Nystagmus (H55.01), OD, OS

Secondary to Oculocutaneous Albinism. Null point: 20 degree left head tilt.

Patient educated about the condition. Will continue to monitor for changes at subsequent visits.

### 3. Secondary Cataract (H26.4), OD, OS

Not visually significant

Patient educated about the condition. YAG not indicated at this time. Will continue to monitor for changes at subsequent visits.



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#### **4. Presbyopia, (H54.2), OD, OS**

DVO and NVO SRx released. Monitor yearly.

### **Case Pearls**

#### **Ocular Albinism vs. Oculocutaneous Albinism**

Ocular albinism occurs in several forms and follows all the inheritance patterns for transmission. Ocular albinism is restricted to only the eyes. There are more than 15 genes currently identified as causing either absent or diminished tissue melanin. Oculocutaneous albinism occurs when both the skin and eyes are involved. Often associated with both these conditions are congenital nystagmus, iris transillumination defects, foveal hypoplasia, and blonde fundi.

#### **Don't let the patient's age fool you**

Although 80 years young, the patient reported ease of use with computers and technology. This allowed us to recommend phone and computer apps that could aid in reading, magnification, and money counting until her consultation with Low Vision/Vision Rehabilitation. Had we not asked, we might have assumed the patient could not use a computer and/or smartphone and not recommended these helpful apps.

#### **Walk the talk**

The patient presented with a mobility cane given her long standing diagnosis of oculocutaneous albinism. Upon further questioning, the patient reported continued issues with mobility even with her cane. She gratefully accepted a referral for Orientation and Mobility retraining. Just because a patient already has a mobility cane, don't assume they are comfortable with navigating their environment. Retraining is always a good option and allows the patient to continue to independently navigate safely and successfully.

#### **Fixating on the important stuff**

Congenital nystagmus is often associated with oculocutaneous albinism. As mentioned, one of the attributes of congenital nystagmus is latent nystagmus, or a worsening of the lateral eye movement when one eye is closed/covered. Don't panic! Expect difficulty with unilateral tests (VA, CVF, refraction etc.) and don't get too hung up on getting varied results. Consider binocular refraction in a trial frame while fogging the untested eye (as opposed to occlusion) in order to get more accurate results.