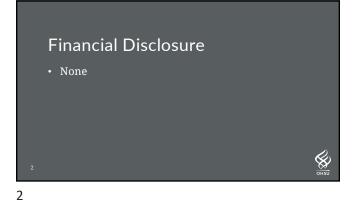


DATE: February 23, 2024 PRESENTED BY: Andrew Yang, MD PGY-2

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Objectives

- Recognize ocular and non-ocular manifestations of rare syndromes
- Recognize the intricacy of multidisciplinary approach to management for complex syndromic patients

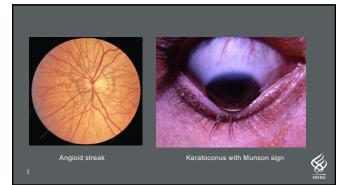
Ehlers Danlos Syndrome

- Group of genetic connective tissue disorders characterized by joint hypermobility, skin hyperextensibility, and tissue fragility.
 Ocular involvement: keratoconus, myopia, blue sclera, epicanthal fold, retinal detachment, glaucoma, angioid streak
 Non-ocular involvement: easy bruising, chronic joint pain, mitral valve
- Monocutal involvement, easy orusing, chrone joint pain, initial valve prolapse, hernias, gastrointestinal disorders, dysautonomia
 Management: treat ocular manifestations, multi-disciplinary/specialty approach (pain specialist, GI, neurology, cardiology)

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Charles Bonnet Syndrome Presence of vivid, complex visual hallucinations in patients with significant visual loss Management: reassurance, education, and address any underlying visual impairment if

- Hallucination: vary widely in complexity and content, can involve multiple sensory modalities
 - Not associated with any psychiatric disorders
 Usually maintain insight into the fact that their hallucinations are factitious

 - Management: reassurance, education, and address any underlying visual impairment if possible

Steven Johnson Syndrome (SJS)

- Severe hypersensitivity reaction that affects the skin and mucous membranes, including the eyes.
- A medical emergency and can be life-threatening!
 Triggers: Many but common ones include: NSAIDs, anticonvulsants, antibiotics (sulfonamides like Bactrim), allopurinol (for gout) and infections such as herpes and
- my copussing Begins as flu-like symptoms such as fever, sore throat, and fatigue. Within a few days, a painful rash develops, which progresses to blistering and widespread skin detachment. In severe cases, involvement of the mucous membranes of the eyes, mouth, throat, and genitals can lead to significant complications, including impaired vision, difficulty eating and breathing, and increased susceptibility to infections.

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Steven Johnson Syndrome (SJS)

- Ocular manustation.
 Conjunctivitis
 Corneal involvement: erosion, ulcer, and perforation
 Symblepharon formation
 Management: frequent ocular lubrication, antibiotic ointment and/or drops, amniotic membrane placement. Involve our dermatology colleague.

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Sturge-Weber syndrome

- Also known as encephalotrigeminal angiomatosis, is a rare congenital disorder characterized by abnormal blood vessel development in the skin, brain, and eyes
- Typically due to somatic mutation of the GNAQ gene leading to vascular malformation of the capillaries

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Sturge-Weber syndrome

- Cutaneous: facial port-wine stain since birth caused by dilated blood vessels
- Neurologic : seizures, developmental delays, intellectual disability, hemiparesis, and cognitive impairment.
 Ocular: Glaucoma (elevated IOP from malformation of
- trabecular meshwork) and choroidal hemangioma





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Neurofibromatosis Type 1 (NF1)

 Genetic disorder (NF1 gene encodes neurofibromin) causing development of neurofibromas

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Neurofibromatosis Type 1 (NF1)

- Ocular; lisch nodules (tiny, pigmented nodules on iris), optic nerve gliomas (sight threatening), sphenoid wing dysplasia (lead to proptosis)
 Others: café-au-lait spots, plexiform neurofibromas (S-shaped eyelid causing ptosis and deprivative amblyopia), brain tumors (gliomas),
- Managements: monitor for development of optic nerve glioma, consider fixing plexiform neurofibromas, supportive care



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Waardenburg Syndrome

• Genetic disorder (PAX3, MITF, SOX10, EDNRB, EDN3) with facial features, hearing loss, and pigmentary abnormalities to the skin, hair, and

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Waardenburg Syndrome

- Face: high, broad forehead; a wide nasal bridge; a prominent nasal root; a broad nasal tip; and a prominent, wide-set eyes (hypertelorism)
- e. Ears: hearing loss
 Additional: developmental delay, intellectual disability, musculoskeletal anomalies, or gastrointestinal abnormalities
 Pigmentary changes
- rgmentary trianges
 Hair: distinctive pattern of hair pigmentation, characterized by a white forelock (a patch of white hair near the forehead) or premature graying of the hair.
 Eyes: heterochromia iridis, ptosis, strabismus, synophrys, telecanthus, dystopia canthorum



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