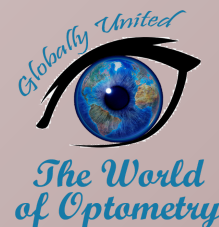


TWOP Discussion

OCULOCUTANEOUS ALBINISM

LOW VISION APPROACH



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INTRODUCTION

- **Albinism** is a rare group inherited condition in which there are defects in the production of melanin.
- Deficiency of enzyme **tyrosinase**.
- **Oculocutaneous Albinism (OCA)** causes little or no production in the melanin that affects mainly skin, hair and eyes.
- People with this type of Albinism usually will have **pink colored skin, transillumination iris, as well as white hair** including eyebrows and eyelashes.



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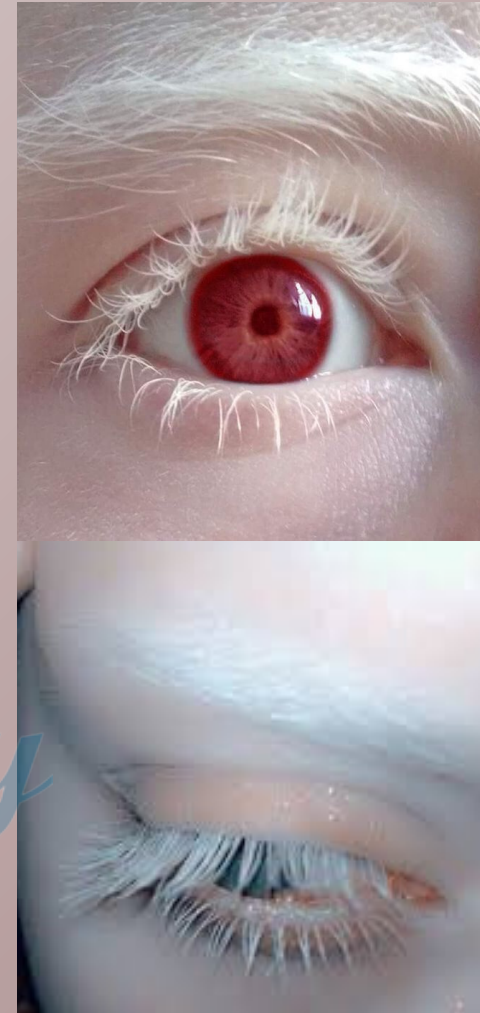
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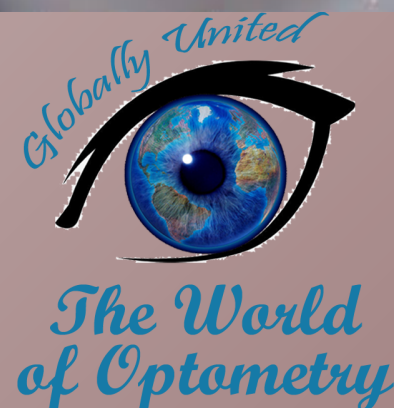
TYPES OF OCA

OCA TYPE 1:

- **Type 1A:** Absence of pigment completely in skin, hair and eyes.
- **Type 1B:** Moderate presence of pigments in tissues.
- **Type 1TS:** Also known as temperature sensitive type as pigments only present in follicles of the cooler area of the body (legs and arms).



*Type 1 will usually present with a complaint of Photophobia, reduced in vision (Low Vision) & Nystagmus.



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TYPES OF OCA

OCA TYPE 2:

- Moderate to Minimum presence of pigments in the skin, hair & eyes.
- OCA Type 2 mainly develops pigmented freckles or nevus as they are aging.



OCA TYPE 3:

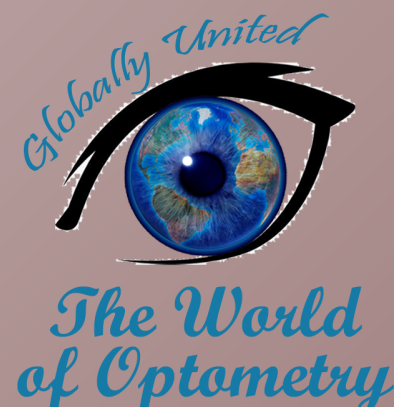
- Known as Rufous/Brown Albinism in which minimum reduction in pigments in the skin, hair & eyes.



OCA TYPE 4:

- Phenotype resembling of Type 2.

*Type 2&3 has same ocular condition as Type 1.



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CLINICAL FEATURES & SYMPTOMS

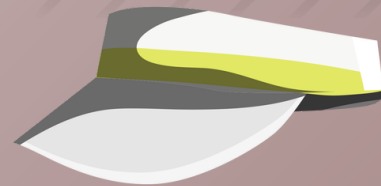
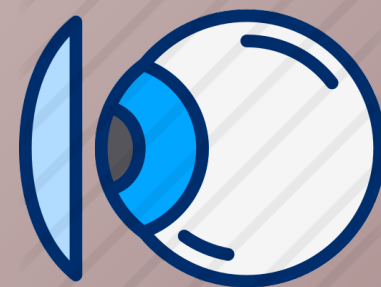
- Skin, Hair & Eyes seems to be lighter than normal or pink/white.
- Presence of Nystagmus (dancing eyes).
- Presence of Strabismus (crossed eyes).
- Photophobia (Sensitive to light).
- Vision problem or functional blindness (Long/Short Sightedness).
- Foveal Hypoplasia (Incomplete development of Fovea).



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LOW VISION MANAGEMENT

- Correction of refractive errors appropriately as it improves vision and reduce nystagmus.
- Prescription of colored contact lenses.
- Advicing the patients in wearing visors/hats.
- Finding the null point (Sometimes it is easier to read any materials that is rotated at an angle where as others may assume a compensatory head tilt).



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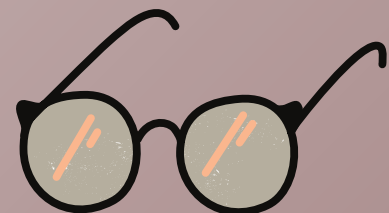


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LOW VISION MANAGEMENT

- Glasses with prisms can decrease nystagmus and strabismus management (ocular misalignment).
- Binocular telescopes (nystagmus is not a contraindication).
- Magnifiers (spectacle/ hand-held/ stand).
- Filters (Red/ American Gray tint/ Dark-gray tint).
- Genetic counseling.



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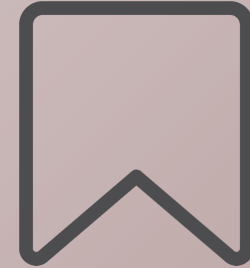
Wow, what cool content



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