

Ophthalmology and Visual Sciences



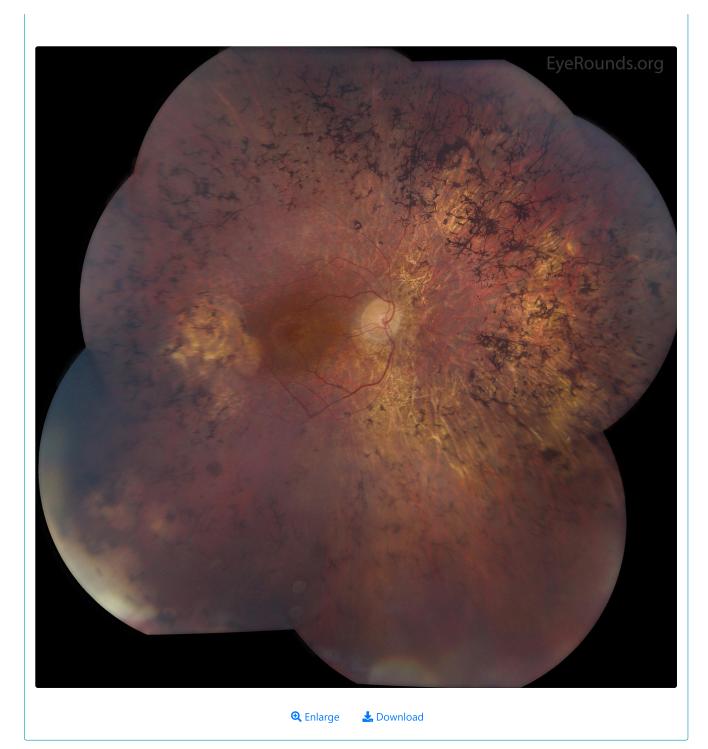
Retinitis pigmentosa (RP)

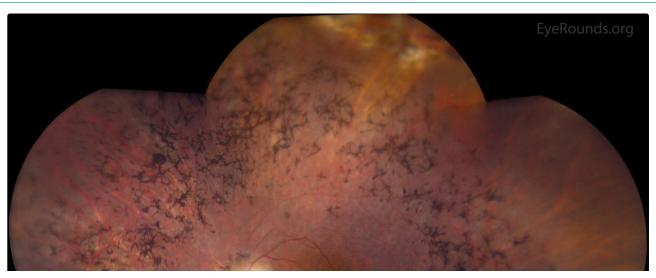
Category(ies): Inherited Eye Diseases and Retina / Vitreous

Contributor: <u>Aaron M. Ricca MD</u> Photographer: Susan J. Wright



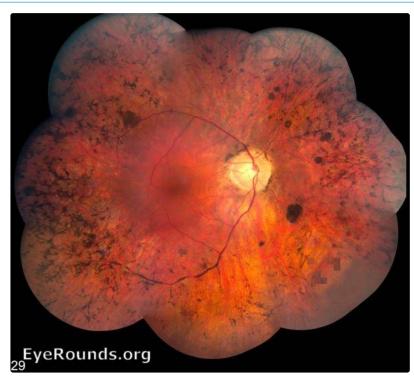
The montage color fundus photographs are from a 57-year-old male with molecularly confirmed retinitis pigmentosa (RP). He has a Pro347Ala change in the rhodopsin gene, which is consistent with autosomal dominant inheritance pattern. RP disease is rod-predominant photoreceptor degeneration, with late-stage atrophy of the cones and retinal pigment epithelium. It presents early in life with nyctalopia as a common first symptom. Visual field loss classically occurs in a ring-shaped scotoma with sparing of the central macula until late in the disease. Classic funduscopic findings include waxy-pallor of the optic disc, severe arteriolar attenuation, and bone-spicule-like pigmentation in the mid-peripheral retina. Routine dilated fundus examination and optical coherence tomography are important, as patients may develop cystoid macular edema, which may be respond to treatment with topical carbonic anhydrase inhibitors.







Category(ies): Retina
Contributor: Andrew Doan, MD, PhD



1. This is a montage color fundus photograph of the right eye in a patient with autosomal recessive RP. The photograph depicts waxy disc pallor, arteriolar attenuation, and bone-spicule like pigmentation of the peripheral retina (distributed along the microvascular pattern of the retina).



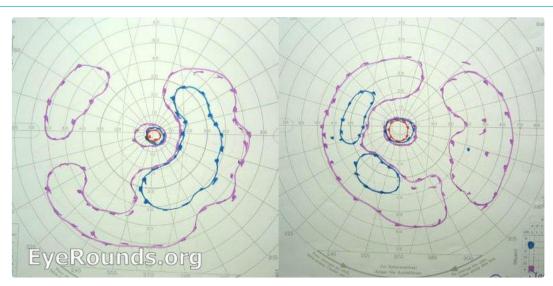






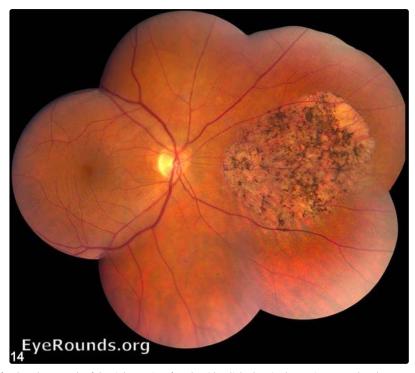
2. This is a montage color fundus photograph of the left eye in the same patient as above. Findings are similar to the right eye.

Q Enlarge **♣** Download



3. Goldmann visual perimetry of the right and left eye in the same patient as above demonstrating bilateral ring-pattern scotomas.

Q Enlarge **★** Download



4. This is a montage color fundus photograph of the right eye in a female with x-linked RP in the carrier state. The photograph depicts unilateral, patchy pigmentation representing lyonization/x-inactivation. REFERENCE(S



References:

1. Ryan SJ. Retina. 5th ed. London: Saunders/Elsevier; 2013.

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