

## Kearns-Sayre Syndrome

Kearns-Sayre syndrome is a mitochondrial disease characterized by ophthalmoplegia, retinitis pigmentosa, and cardiac electrophysiology like heart block.



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### Characteristics

#### Mitochondrial Disease

##### [Damaged Mitochondria](#)

Kearns-Sayre syndrome is a multi-organ disorder caused by a defect in mitochondrial genes. In rare cases, it can be autosomal dominant as well.

### Clinical Findings

#### Ophthalmoplegia

##### [Ophthalmoscope-crazy-eye](#)

Chronic progressive external ophthalmoplegia (CPEO) is present in patients with this disease. It is a type of eye disorder characterized by a slowly progressive inability to move the eyes and eyebrows.

#### Retinitis Pigmentosa

##### [Red-tin-eyes Piggy-bank](#)

Retinitis pigmentosa is a hereditary degenerative disease of the retina which involves excessive pigmentation and visual field defects.

#### Heart Block

##### [Heart Blocks](#)

Heart block occurs due to disruptions in the heart's pacemaker current that passes from the atria to the ventricles. Patients present with bradycardia and may have characteristic EKG findings.