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Leber Hereditary Optic Neuropathy

Leber hereditary optic neuropathy (LHON) is a mitochondrial disease that causes optic atrophy. It typically affects adolescent males, who may present with painless vision loss.



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Characteristics

Mitochondrial Disease

Damaged Mitochondria

Mitochondrial diseases occur from defects in mitochondrial DNA. LHON is one of these diseases, which leads to dysfunction in mitochondrial energy production.

Optic Atrophy

Optics-@-Trophy

LHON is characterized by optic nerve fiber atrophy. This is most pronounced in the papillomacular bundle, which can lead to central scotomas.

Adolescent Males

Adolescent Male

This disease most often occurs in male adolescents, between 12-18 years of age.

Symptoms/Findings

Painless Vision Loss

No Pain-bolt Sign Darkened-Eye-Smiling Painless vision loss can be a feature of LHON. The vision loss starts in one eye and gradually affects the other.
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