

range

Pathophysiology

Results from eyeball that is too short, causing image to focus beyond retina

Clinical Manifestations

Because of accommodative ability, child can usually see objects at all ranges

Most children are normally hyperopic until about 7 years old

Treatment

When required, corrected with convex lenses that focus rays on retina

May be corrected with laser surgery

Astigmatism

Unequal curvatures in refractive apparatus

Pathophysiology

Results from unequal curvatures in cornea or lens that cause light rays to bend in different directions

Clinical Manifestations

Depend on severity of refractive error in each eye

Possible clinical manifestations of myopia

Treatment

Corrected with special lenses that compensate for refractive errors

May be corrected with laser surgery