

## Ophthalmic disturbances in children with sensorineural hearing loss

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### Abstract

Co-occurrence of sensorineural hearing loss and ophthalmic abnormalities has a tremendous influence on development of children. This study was done to determine the nature and prevalence of ophthalmic disturbances in children with congenital sensorineural hearing loss. In a descriptive cross-sectional study, complete ophthalmologic examinations such as assessment of visual acuity, cycloplegic refraction, ocular motility examination, slit lamp examination and indirect funduscopy on 20 children with sensorineural hearing loss (determined by ABR), were performed. Thirty-two percent of cases had at least one kind of ophthalmic disturbances. Refractive errors were the most common abnormalities (74%), including astigmatism (17%), myopia and astigmatism (4%), and hyperopia (4%). Three (15%) cases had ocular motility disturbance including one case of esotropia, one case of exophoria and one case of exotropia. Twenty-four percent of cases had retinal abnormalities, including suspected Rubella retinopathy (15%), pigmentary changes suspect to retinitis pigmentosa (5%), optic nerve hypoplasia (5%), and finally poor fovea reflex (10%). © 2009 Springer-Verlag.

### Author keywords

Astigmatism; Hyperopia; Myopia; Ophthalmic abnormalities; Refractive errors; Sensorineural hearing loss; Visual impairment

### Indexed Keywords

**EMTREE medical terms:** accommodation paralysis; article; astigmatism; child; clinical assessment; convergent strabismus; cross-sectional study; descriptive research; divergent strabismus; eye disease; eye examination; eye movement; eye refraction; female; human; hypermetropia; major clinical study; male; myopia; ophthalmoscopy; optic nerve hypoplasia; perception deafness; preschool child; prevalence; priority journal; refraction error; retina fovea; retinitis pigmentosa; retinopathy; school child; slit lamp; visual acuity

**MeSH:** Child; Child, Preschool; Cross-Sectional Studies; Eye Diseases; Female; Hearing Loss, Sensorineural; Humans; Male; Ocular Motility Disorders; Refractive Errors; Retinal Diseases; Visual Acuity

*Medline is the source for the MeSH terms of this document.*

ISSN: 0937-4477 CODEN: EAOT Source Type: Journal Original language: English

DOI: 10.1007/s00405-008-0821-7 PubMed ID: 18839196 Document Type: Article