

DiGeorge Syndrome

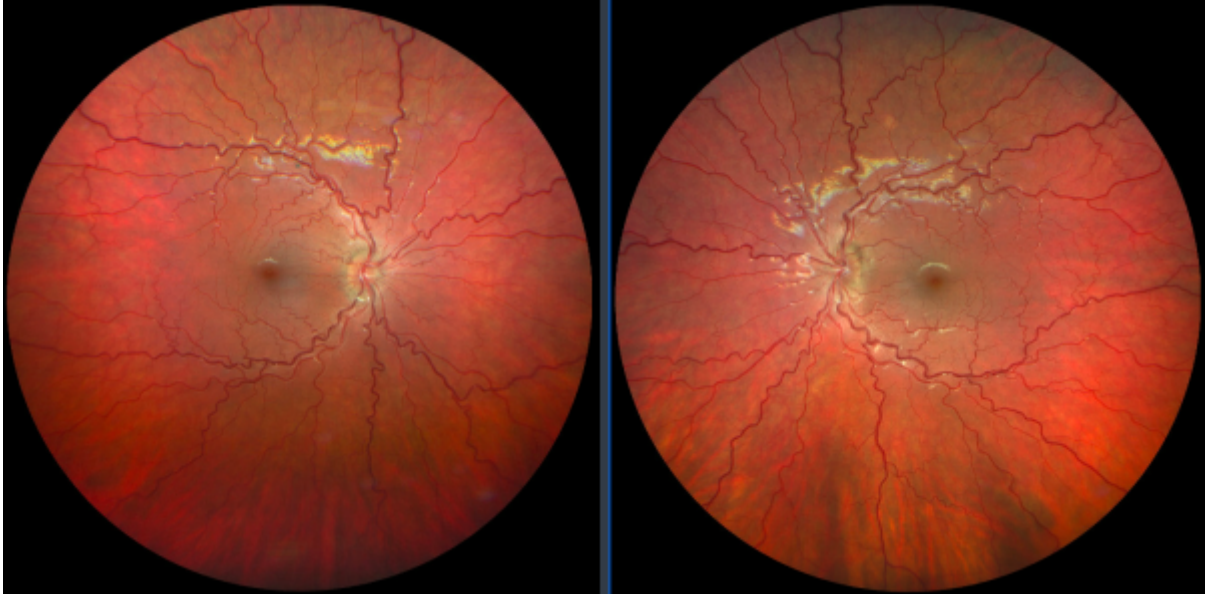
Main Features

- Various phenotypic expressions with multiorgan dysgenesis
- Most common abnormalities involve the following systems/organs:
 - cardiac
 - craniofacial
 - thymus
 - parathyroid

Eye Findings

- Anterior segment
 - Posterior embryotoxon (15%)
 - Sclerocornea
 - Peters anomaly
 - Iris remnants
 - Cataracts
 - Uveitis
 - Colobomas
 - Anterior segment dysgenesis
- Posterior segment
 - Tortuous retinal vessels (24%)
 - Optic Disc abnormalities (hypoplastic, hyperpigmented, small or tilted, excavated) (9%)
 - 22q11.2 may be an additional genetic locus for familial exudative vitreoretinopathy
- Globe
 - Microphthalmia with or without orbital cyst- rare
 - Persistent fetal vasculature- rare
- External, Orbit, Vision
 - Strabismus (10%) / Amblyopia (6%)
 - Eyelid abnormalities
 - Epicanthus (4%)
 - Ptosis (3%)
 - Distichiasis
 - Dacryostenosis (3%)

Fundus Vascular Tortuosity and Optic Nerve anomaly in teenager with DiGeorge



Other Findings

- Renal, endocrine, immunologic, and psychiatric problems

Etiology

- Partial deletion of the long arm of chromosome 22 (deletion 22q11.2)
- [22q11.2 distal deletion syndrome](#) is considered distinct from DiGeorge and is described separately

Reference

- [Ocular Findings in 22q11.2 deletion syndrome: A systematic literature review and results of a Dutch multicenter study](#)
- [Microphthalmia and orbital cysts in DiGeorge syndrome- JAAPOS](#)
- [Medline Plus](#)
- [Gene Reviews](#)
- [22q11.2 Deletion Syndrome. McDonald-McGinn DM et al. Nat Rev Dis Primers 2016;1:15071](#)
- [Chromosome 22q11.2 deletion syndrome and DiGeorge syndrome. Sullivan KE. Immunol Rev. 2019;287\(1\):186-201](#)
- [22q11.2 distal deletion: A Recurrent Genomic Disorder Distinct from DiGeorge Syndrome and Velocardiofacial Syndrome. Ben-Shachar, S et al. American Journal of Human Genetics. 2008;82:214-221](#)

syndrome

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