

□ Optic Disc Drusen (ODD)

Optic disc drusen are calcified deposits located anterior to the lamina cribrosa within the optic nerve head. They can mimic papilledema but do not represent increased intracranial pressure.

□ Pathophysiology Thought to result from axonal degeneration and abnormal axoplasmic flow.

Calcify over time and become more visible with age.

Often bilateral and congenital.

More common in small crowded discs ("disc-at-risk").

□ Epidemiology Present in up to 2% of the population

Can be familial (autosomal dominant in some cases)

Often asymptomatic but may cause visual field defects

□ Clinical Features

Feature	Description	Age of onset
Often detected in teens or young adults		
Appearance	Lumpy, irregular disc with no true hyperemia; drusen may autofluoresce	
Laterality	Usually bilateral	
Symptoms	Often asymptomatic; some have transient visual obscurations or visual field loss	
Visual fields	Enlarged blind spot, arcuate defects, nasal steps (similar to glaucoma)	
Visual acuity	Usually preserved	

□ Diagnostic Tools

Tool	Findings
OCT	Elevation of optic nerve head without subretinal fluid; RNFL may show thinning
B-scan ultrasound	High reflectivity (hyperechoic calcifications)
Fundus autofluorescence	Drusen often autofluoresce
CT orbit	Hyperdense calcifications
Fluorescein angiography	No leakage (unlike true papilledema)

△ Differential Diagnosis True papilledema (e.g., idiopathic intracranial hypertension)

Optic neuritis

Ischemic optic neuropathy

Leber's hereditary optic neuropathy

Tumor or infiltrative optic neuropathy

□ Management No specific treatment needed

Regular monitoring of visual fields

Educate patient about the benign nature

Avoid misdiagnosis as papilledema (to prevent unnecessary work-up)

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