

## B-Scan Ultrasound of a Vitreoschisis

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### DESCRIPTION

We report the case of a 65-year-old female patient, with a type 2 diabetes, who presented for a decreased visual acuity in both eyes. The examination of the right eye finds a Best Corrected Visual Acuity (BCVA) of hand motion, an intumescent white cataract, the funduscopy is not possible. In the left eye, the examination finds a BCVA of 3/10 a nuclear and a severe non-proliferative diabetic retinopathy. B-scan of the right eye finds a vitreoschisis.

Vitreoschisis is a consequence of an abnormal separation in the thickness of the posterior vitreous cortex. During a normal Posterior Vitreous Detachment (PVD), two phenomena are associated such as a progressive liquefaction of the vitreous gel and a decrease in the strength of the adhesion of the cortex to the retina [1]. If liquefaction is abrupt with strong adhesion of the posterior cortex, the cortex may cleave leaving a posterior layer on the internal limiting membrane, forming the vitreoschisis.

On B-scan ultrasound, in vitreoschisis, two vitreous membranes are seen that appear to join in a single layer, forming the letter Y (Figure 1).

Recognition of vitreoschisis is important. Some echographic patterns of diabetic retinal detachment might be explained by this phenomenon [2]. If the inner wall of the vitreoschisis cavity were mistaken for the posterior hyaloid during pars plana vitrectomy, the outer wall of the cavity and intervening cortical vitreous cortex would remain intact. It could serve as a scaffold for continued neovascular proliferation and contribute to persistent tangential traction on the retina.

### REFERENCES

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2. Chu TG, Lopez PF, Cano MR, Freeman WR, Lean JS, Liggett PE, et al. Posterior vitreoschisis: An echographic finding in proliferative diabetic retinopathy. *Ophthalmology.* 1996;103(2):315-322.

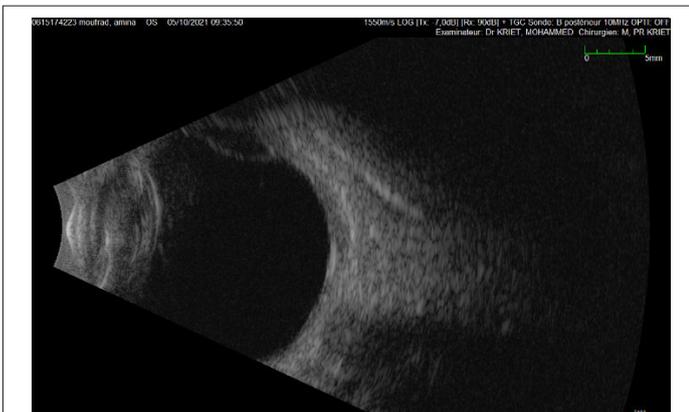


Figure 1: B-scan ultrasound showing vitreoschisis.

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