Case of Mr K.

By Raphaëlle Despréaux
Ophtalmology Department
Professeur E. Souied
Paris Est University
Clinical presentation

• 58-year old man

• Medical history
  • Loss visual acuity of the RE for several months
  • Diagnosis of inter-papillo-macular polyps in RE
  • Treated with 3 Ranibizumab IVT

• Referred for persistent polypoidal choroidal vascularization in right eye after IVT
Clinical presentation

• Ophthalmological examination

  • Visual acuity
    • 20/50 RE
    • 20/20 LE

  • Intraocular pressure normal

  • Anterior segment: no particularity
Left Eye
RIGHT EYE
Fluorescein Angiography
ICG
Which exam do you want to see now?

→ OCT
OCT
OCT
What is your diagnosis?

→ Optic Disc Pit associated with macular retinoschisis
Optic disc Pit

- Congenital excavation of optic disc
  - Described the first time by Wiethe in 1882

- Frequency of 1/11 000

- Unilateral in 85-95%

- Most often found in the temporal region of the optic disc

- Diagnosis when macular serous retinal detachment (SRD) occurs

1 Wiethe T. Ein Fall von angeborener Difformitat der Sehnerven- papille. Arch Augenheilk 1882
Optic disc Pit associated SRD

- Pathogenesis of SRD remains controversial
  - Cerebrospinal origin?\(^1\)
  - Vitreous origin?\(^2\)

- Vitreous traction

- Resorption spontaneous in 25%\(^3\) with varying delays

- Treatment also discussed

2 Sugar HS. An explanation for the acquired macular pathology associated with congenital pits of the optic disc. Am J Ophthalmol 1964
3 Gass JD. Optic nerve diseases that may masquerade as macular diseases. Stereoscopic atlas of macular diseases. Diagnosis and treatment. Mosby: St Louis, MO 1997
Treatment option

• Margin Optic Disc Photocoagulation

• Pars plana vitrectomy

  • Internal limiting membrane peeling
  • Intraocular tamponade with the air-gas mixture
  • + Argon laser photocoagulation after the surgical treatment

1 Cox Ms. Evolving techniques in the treatment of macular detachment caused by optic nerve pits. Ophtalmology 1988
3 months after v3V
Thank you for your attention