

Serpiginous choroidopathy

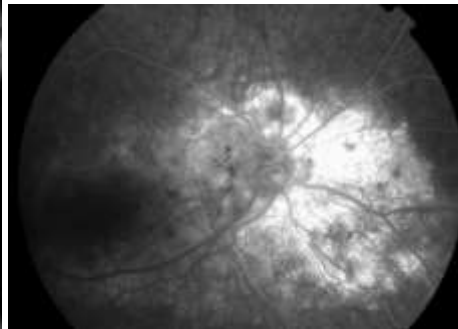
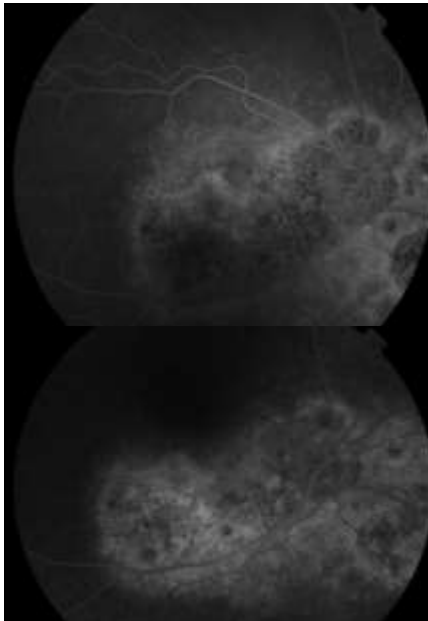
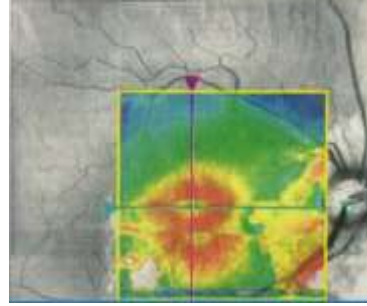
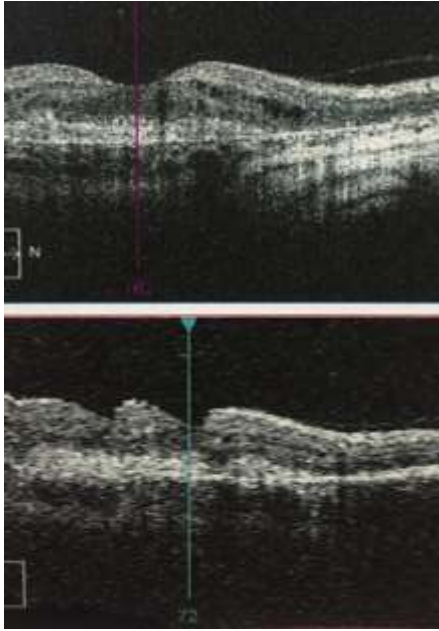
History

- 47 year old caucasian female
- Referred from optician due to HM VA right eye (LE – 6/6)
 - No subjective change in vision
 - No recent infections/night sweats/weight loss
 - No infectious contacts/recent travel/pets
- PMH: no diabetes/hypertension.
- Recruitment manager. Non-smoker

Examination

- VA:
 - Right eye – 0.98
 - Left eye – 0.00
- Anterior segment NAD
- IOP: right: 16; left 19
- No vitreous cells





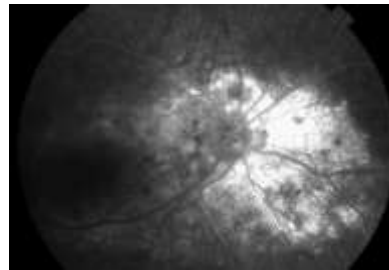
- Suggested a diagnosis
 - Serpiginous choroidopathy
 - Bilateral, long standing disease
 - Advanced in the right eye
 - Complicated by CNV

Serpiginous choroidopathy

- **Rare bilateral progressive inflammatory disease of RPE, choroid and choriocapillaris**
 - 5% posterior uveitis
 - Men; young to middle-aged adults
 - HLA-B27 and retinal S-antigens
 - HSV and Factor VIII
- **Painless unilateral vision loss**
 - Blurry vision; photopsia; paracentral scotomas; metamorphopsia and visual field loss

Signs

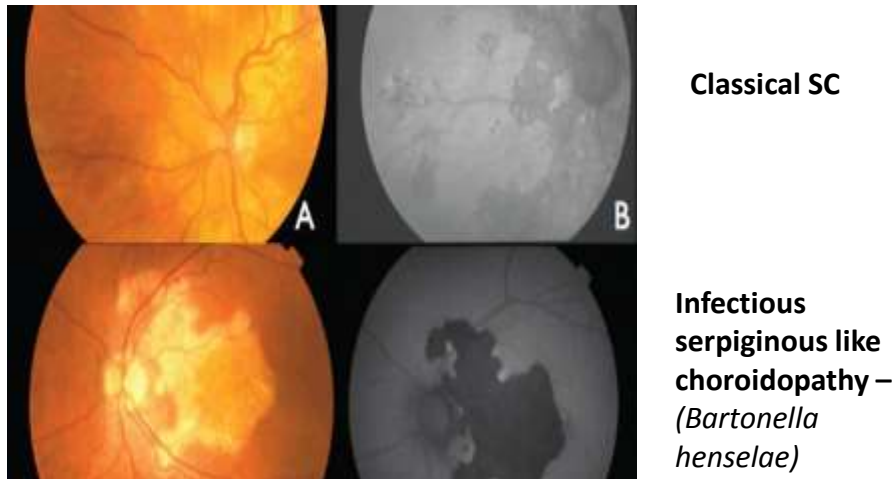
- Grey-yellow subretinal infiltrates spread from peripapillary region
- Atrophy with early dense hypopigmented areas
- Minimal anterior chamber cells and minimal vitritis



Differential

- **Inflammatory chorioretinopathies**
 - APMMPPE
 - Multifocal chorioretinitis
- **Serpiginous-like choroidopathy (SLC)**
 - TB
 - Toxoplasmosis

Serpiginous-like choroidopathy

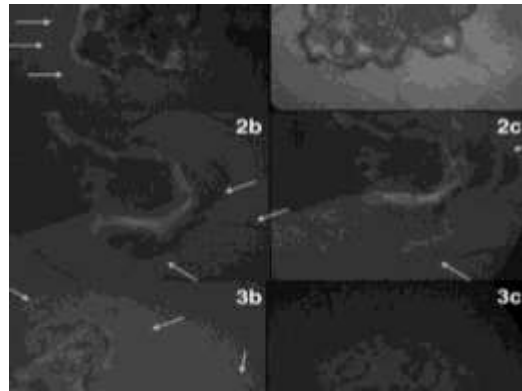


Careno et al, 2012

Serpiginous like choroidopathy vs serpiginous choroidopathy

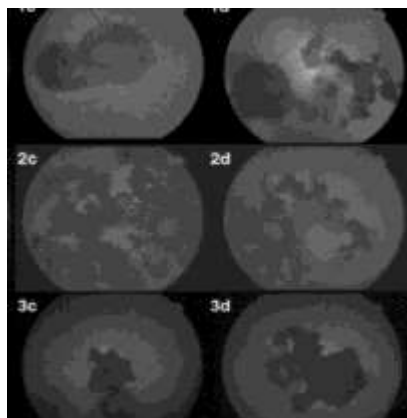
- SLC
 - Non-contiguous with the disc
 - Frequently multifocal
 - Peripheral involvement
 - Spare the fovea
 - Vitritis

Autofluorescence imaging



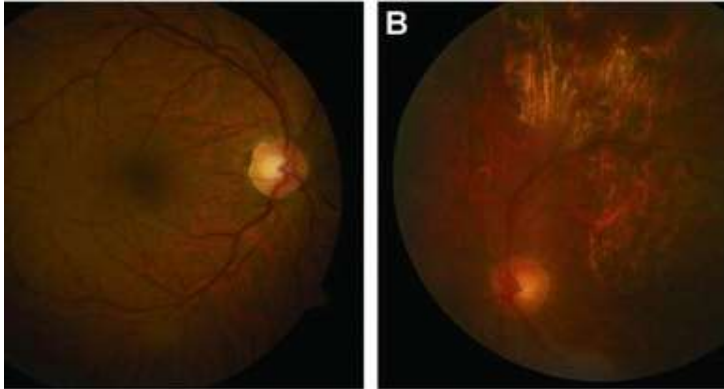
SC – active inflammation: dark areas with hyperautofluorescence at edges

Autofluorescence imaging



SC inactive: areas of hypoautofluorescence

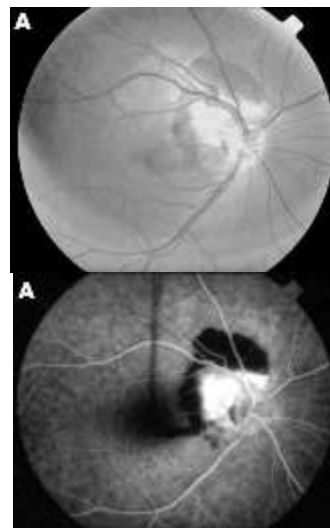
Antiphospholipid syndrome



Tang et al, 2009

CNV

- Accounts for severe visual loss; affecting young patients
- Infrequent complication of posterior uveitis:
 - Presumed ocular histoplasmosis (3.8%)
 - Punctate inner choroidopathy (17-40%)
 - Serpiginous choroiditis (<30%)
 - Vokt-Koyanagi-Harada (up to 9%)
- Extensive subretinal scarring



Lee et al, 2003

Treatment

- **Acute macular serpiginous choroidopathy:**
 - Corticosteroids (systemic/regional)
 - Pulse cyclophosphamide
 - Steroid sparing agents including azathioprine
- **Treatment of complications**
 - CNV
 - Laser – extrafoveal membranes
 - Anti-VEGF (used in a range of inflammatory CNV including presumed ocular histoplasmosis, punctate inner choroidopathy ^{Mansour et al, 2012})

1. [Ocul Immunol Inflamm. 2012 Dec;20\(6\):448-52. doi: 10.3109/09273948.2012.723236. Epub 2012 Nov 19. Distinctive clinical features of idiopathic versus infectious serpiginous choroidopathy Carreño E1, Portero A, Herreras JM, Calonge M, Foster CS.](#)
- [Br J Ophthalmol. 2003 Sep; 87\(9\): 1184–1185.](#)
- PMID: PMC1771863
- [Serpiginous choroidopathy presenting as choroidal neovascularisation](#)
- [D K Lee,1 W Augustin,2 R R Buggage,2 and E B Suhler2](#)