



Utilization of Indocyanine Green Angiography in a Case of Birdshot Chorioretinopathy

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INTRODUCTION

- Birdshot chorioretinopathy is a rare, A29-associated, insidious form of chronic, posterior uveitis with characteristic lesions in the fundus.
- In active disease, Indocyanine Green (ICG) angiography reveals choroidal lesions far in excess of what is visually apparent.
- These choroidal lesions resolve with treatment and can recur upon treatment cessation. Their recurrence can be present before other clinical signs of active inflammation become apparent.

CASE PRESENTATION

- A 66-year-old male was diagnosed with Birdshot chorioretinopathy 15 years ago and has been on multiple courses of immunomodulatory therapy (combination Cellcept and Cyclosporine).
- This therapy is successful when utilized but is tapered every 2 years to see if still required.
- Figure 1 shows active disease resolved 12 months later after initiating therapy (Figure 2). After 2 years of quiescence the medication was tapered again.
- Active disease was found on routine follow up (Figure 3) and improved upon reinitiating therapy (Figure 4).
- Note that the fluorescein (FA) angiogram shows minimal change.

IMAGING

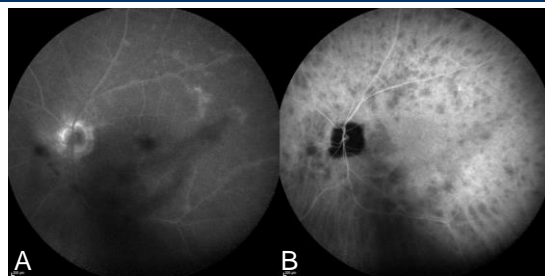


Figure 1. 2017 - Off treatment, left eye, late-phase (A) FA, (B) ICG

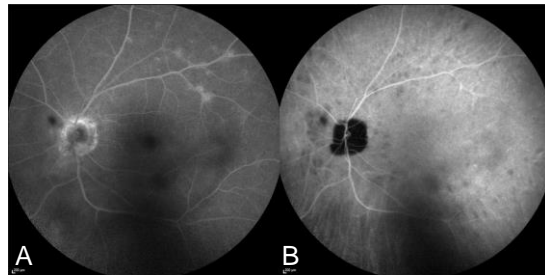


Figure 2. 2018 - On treatment left eye, late-phase (A) FA, (B) ICG

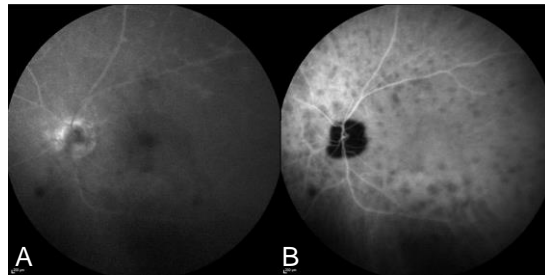


Figure 3. 2020 - Off treatment left eye, late-phase, (A) FA, (B) ICG

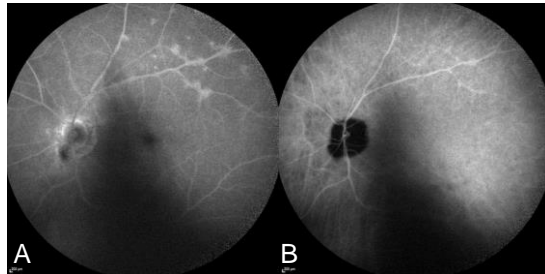


Figure 4. 2021 - On treatment left eye, late-phase, (A) FA, (B) ICG

DISCUSSION

- Birdshot chorioretinopathy can be well-controlled on immunomodulatory therapy.
- As this is a chronic disease, cessation of treatment can result in disease activity flare ups with increased lesions on ICG angiography and can progress to vision loss if therapy is not re-initiated.
- Patients should be followed with ICG angiography as lesions are not well-visualized on FA.
- This case demonstrates how ICG angiography is a useful indicator of disease activity.

CONCLUSIONS

- ICG angiography is a useful adjunct to FA for disease detection and monitoring and should be performed on a routine basis for patients with Birdshot chorioretinopathy.
- ICG angiography can indicate reactivation of disease before it is otherwise clinically apparent allowing for prompt reinitiation of therapy.

REFERENCES

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