

## Real-world case with EYLEA (aflibercept) 8 mg for treatment-naïve DMO: A UK perspective

Richard Gale, *Consultant Ophthalmologist, York and Scarborough Teaching Hospitals NHS Foundation Trust*

### Author disclosures | Up to 2024:

**Conflicts of Interest:** Abbvie, Alimera, Allergan, Amgen, Apellis, Bayer, Biogen, Boehringer Ingelheim, Heidelberg, Lux Bio, Notal vision, Novartis, Regeneron, Roche, Santen.

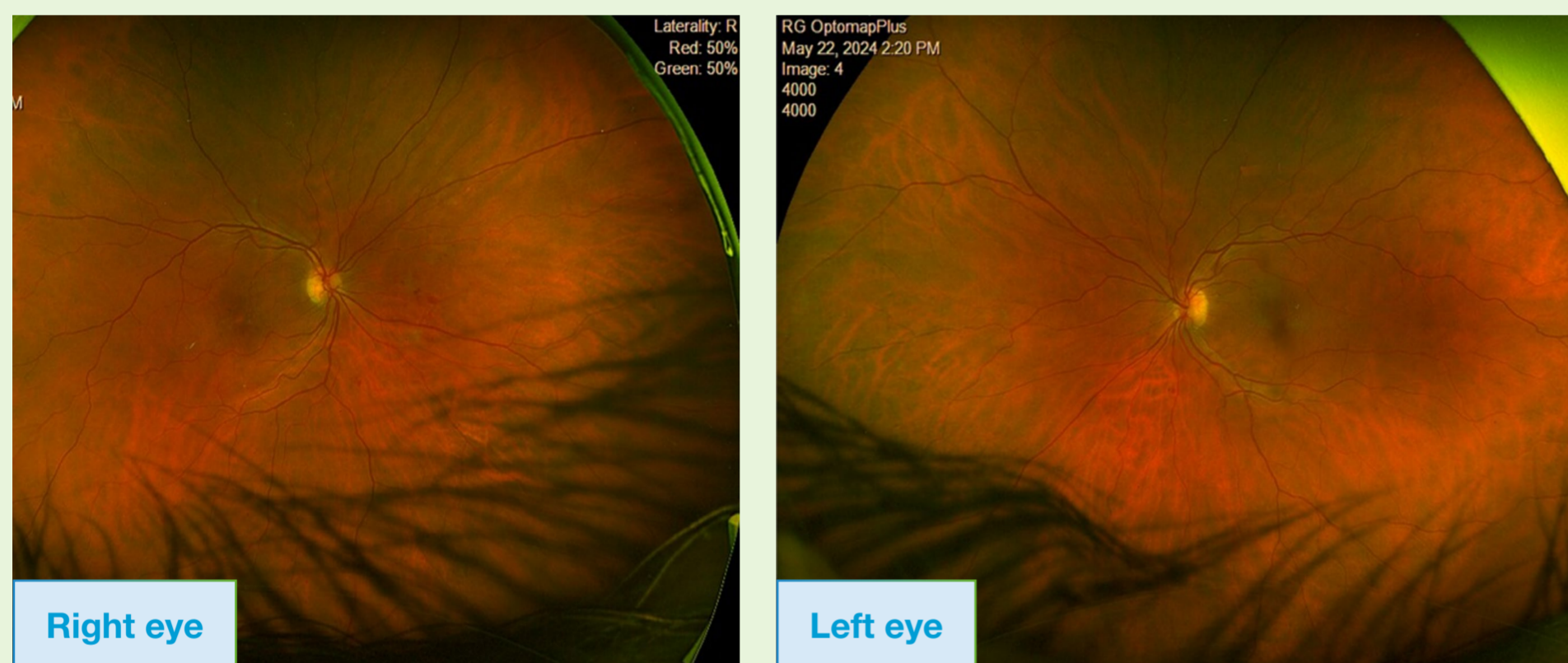
## EYLEA 8 mg use in York and Scarborough Teaching Hospitals NHS Foundation Trust

EYLEA 8 mg has been used in **164 eyes** since **21 May 2024** across York and Scarborough Teaching Hospitals NHS Foundation Trust, including **29 eyes** with diabetic macular oedema (DMO) (**6 treatment-naïve DMO and 23 switch patients with DMO**)

## Patient case 1: Journey overview

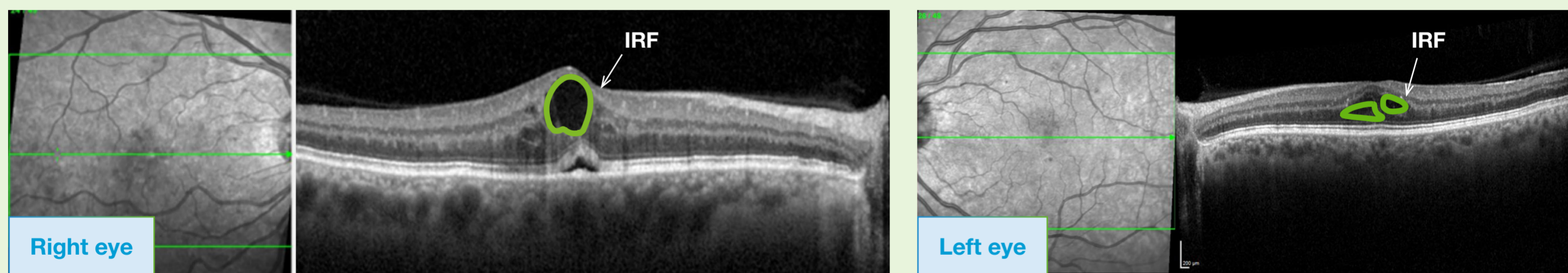
This case focuses on a **61-year-old male** with **Type 1 diabetes** following diabetic ketoacidosis. Prior to diabetic monitoring, his **vision** was **6/9** and **6/7.5** in the right and left eyes, respectively. Following presentation to the **diabetic monitoring eye clinic** with no new ocular or visual symptoms reported, he was diagnosed with **non-high risk proliferative diabetic retinopathy (right eye) and moderate non-proliferate diabetic retinopathy in the (left eye)**. The presence of bilateral central DMO was identified and the patient was subsequently referred to the **DMO treatment clinic for intravitreal therapy** (right eye). This case explores his treatment journey.

## Presentation at baseline (22 May 2024) – Both eyes



Presenting visit pre-treatment	OS	OD
BCVA (Snellen), UK	6/9.5	6/9.5
CST (µm)	452	384
IOP (mmHg)	20	20

Initial examination showed **bilateral nuclear sclerosis**. Fundoscopy highlights **bilateral, healthy-looking optic discs**. **Both maculae** show multiple **microaneurysms, hard exudates** and **clinically significant macular oedema**. Right eye shows several **cotton wool spots** and **non-high risk neovascularisation elsewhere (NVE)** nasal to the optic disc. Left eye shows intraretinal microvascular abnormality (**IRMA**) but there is no visible new vessel for the left eye. OCT of the macula shows **bilateral increased central intraretinal fluid (IRF)**.



### Treatment:

- For the **right eye**, which presented with **non-high risk proliferative diabetic retinopathy**, **close observation** or **panretinal photocoagulation** was suggested. The patient expressed concerns regarding his driving eligibility and requested a close watch for the time being. At this point, he may benefit from **intravitreal therapy** for **central DMO** in the right eye; therefore, he was reviewed in the DMO treatment clinic a few weeks later, where he received his **first injection with EYLEA 8 mg**
  - lopidine 1% was used as **pre-injection IOP** control prior to treatment with EYLEA 8 mg as the patient's **IOP values** were at the **upper end of normality** and due to the **high dosage** of EYLEA 8 mg.

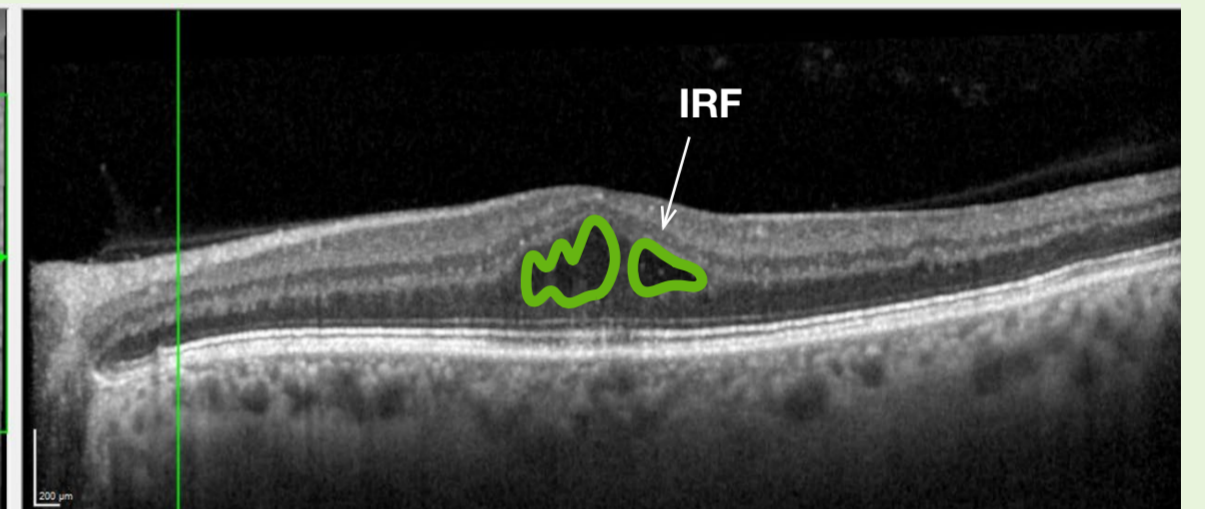
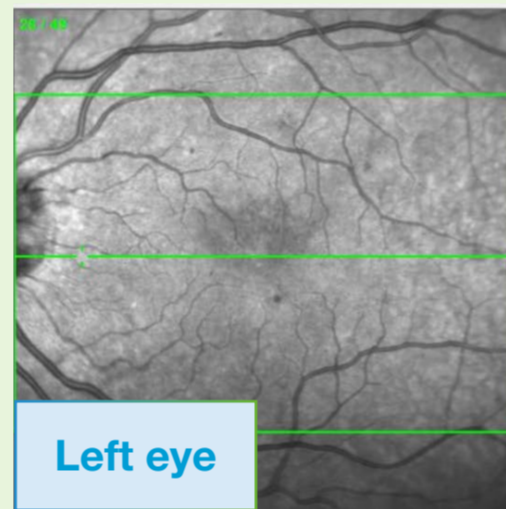
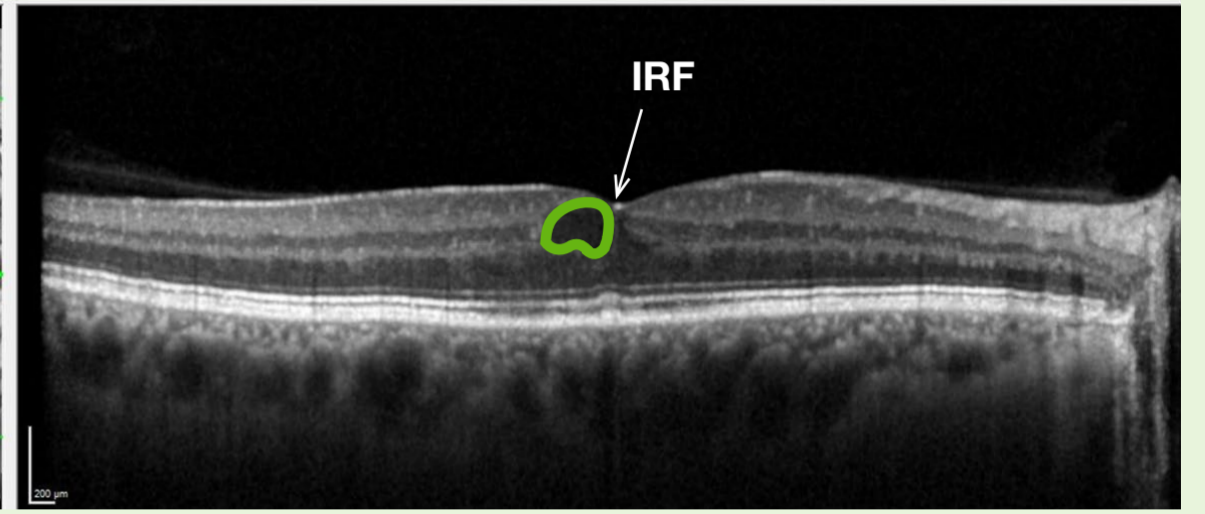
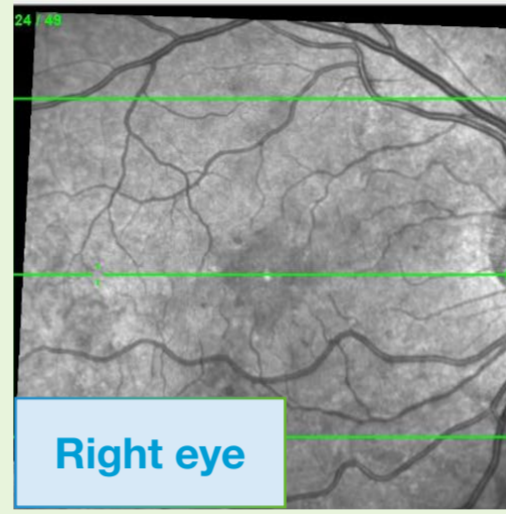
## 4-week follow-up after first EYLEA 8 mg injection in the right eye (exact date NR)

Improvements in **visual acuity** for the right eye were observed after initial **treatment with EYLEA 8 mg**.\*

**Treatment:** Patient received second loading dose with EYLEA 8 mg in the right eye.

## 4-week follow-up after second EYLEA 8 mg injection in the right eye (17 July 2024)

4 weeks after 2 <sup>nd</sup> EYLEA 8 mg in the right eye	OS	OD
BCVA (Snellen), UK	6/9.5	6/6 <sup>†</sup>
CST (µm)	401	349



Vision outcomes remained stable 4 weeks following the second EYLEA 8 mg injection in the right eye; however, CRT was observed to be at 401 µm in the left eye.

### ? What would you do?

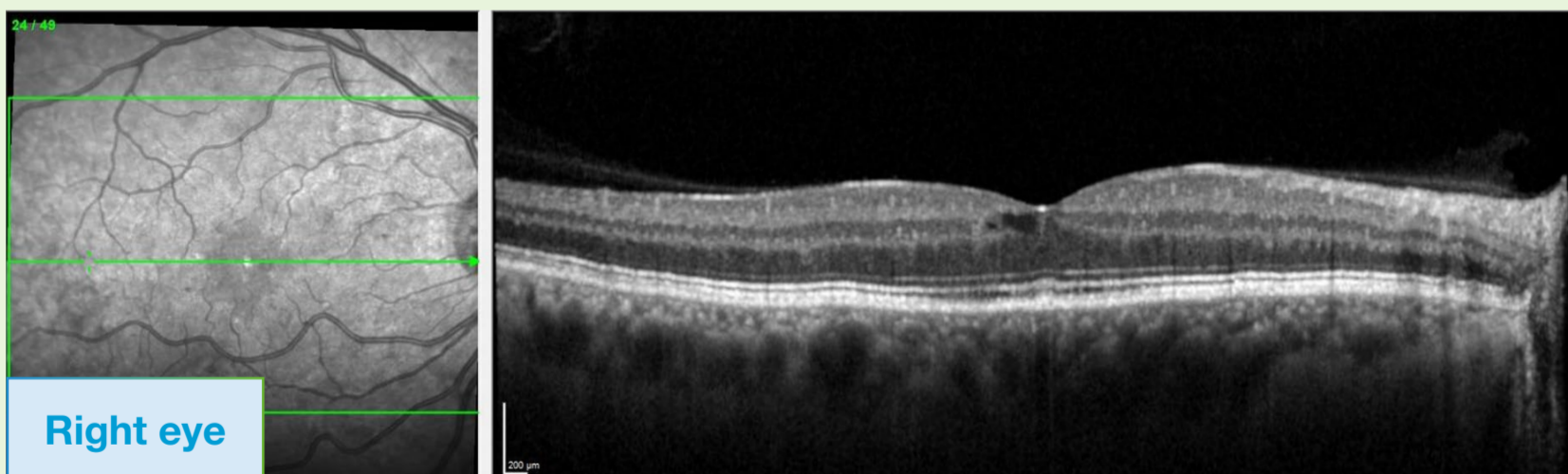
**Treatment:**

**Left eye:** Patient received first monthly loading dose with EYLEA 8 mg

**Right eye:** Patient received third monthly loading dose with EYLEA 8 mg in the right eye and interval was extended to 8 weeks.

Although Iopidine 1% was used for pre-injection IOP control in the right eye for the first two injections as the patient's IOP was in the upper end of normality, **IOP was reduced by the time of the third injection**; therefore, no Iopidine was used for either eye.

## 8-week follow-up after third EYLEA 8 mg injection in the right eye and 4 weeks after second EYLEA 8 mg in left eye (11/09/2024)



8 weeks after 3 <sup>rd</sup> EYLEA 8 mg in RE and 4 weeks after 2 <sup>nd</sup> in LE	OS	OD
BCVA (Snellen), UK <sup>†</sup>	6/6	6/6
CST (µm)	NR	
IOP (mmHg)	NR	21

**Vision** was reported to be **stable** (no improvement or worsening). Visual acuity at this visit did not meet the driving standard so the patient was advised not to drive and get a sight test 1 week following injection visit to determine if glasses will help (**pinhole visual acuity** was **very good** so this was deemed likely). **IRF on OCT** for the **right eye** was **substantially improved**, with **almost no fluid** following the 8-week interval. **IRF on OCT** for the **left eye** was **improved after 2 injections**; however, still persisted. No new blood vessels were observed.

**Treatment:** Patient to remain on 8-week treatment intervals with EYLEA 8 mg in the right eye. Patient received third loading dose with EYLEA 8 mg in the left eye during treatment visit - also to extend to 8-week treatment intervals with EYLEA 8 mg in the left eye.

\*Exact values not reported. <sup>†</sup>Pinhole. BCVA, best-corrected visual acuity; CRT, central retinal thickness; IOP, intraocular pressure; IRF, intraretinal fluid; LE, left eye; OCT, optical coherence tomography; OD, *oculus dexter* (right eye); OS, *oculus sinister* (left eye); NR, not reported; RE, right eye.

This case study is from a real patient. Information and images courtesy of the author. The information presented in this poster represents the views of the author.

The promotional eNewsletter series is organised and fully funded by Bayer and is intended for UK healthcare professionals only. Prescribing information can be accessed by scanning the QR code on the last page.

Adverse events should be reported.  
Reporting forms and information can be found at <https://yellowcard.mhra.gov.uk/> or search for MHRA Yellow Card in the Google Play or Apple App Store.  
Adverse events should also be reported to Bayer plc.  
Tel.: 0118 2063500, Email: [pvuk@bayer.com](mailto:pvuk@bayer.com)

Prescribing information and adverse event reporting information for EYLEA® (aflibercept) is available via the QR code on the right.

Either [click here](#) or scan the QR code for prescribing information and adverse event reporting information.

For direct access to this prescribing information, please ensure your device's browser settings have automatic PDF download enabled.

