Treatment of Macular Oedema secondary to Retinal Vein Occlusion (RVO) in Adults High Cost Drugs Pathway

Document control

Date	Version	Amendments
October 2025	2.0	Updated pathway; combined BRVO and CRVO pathways into a single pathway. Pathway developed in accordance with NCL 'Principles for Commissioning High-Cost Drug Pathways for ICB Commissioned Indications', November 2023, and includes relevant published NICE TAs.
April 2015	1.0	Inaugural document

Groups / individuals who have overseen the development of this guidance:	NCL HCD Team, NCL Provider Trust Ophthalmology Specialist Clinicians, NCL Joint Formulary Committee Team		
Groups which were consulted and have given approval:	NCL wide consultation (NCL ICB, NCL Formulary Pharmacists, NCL Specialist Clinicians), NCL Joint Formulary Committee, NCL HCD Working Group, NCL Medicines Finance Value Group		
File name:	RVO HCD Pathway		
Version number:	2.0		
Available on:	https://nclhealthandcare.org.uk/our-working-areas/medicines- optimisation/medicine-pathways-guidelines-position-statements/		
Disseminated to:	NCL Joint Formulary Committee, NCL Formulary Pharmacists, NCL Commissioners, NCL Specialist Clinicians		
Equality impact assessment:	No issues identified		
NCL JFC approval date:	November 2025		
Review date:	November 2028 (or sooner if updates required e.g. NICE TAs)		

Disclaimer

This guideline is registered at North Central London (NCL) Joint Formulary Committee (JFC) and is intended solely for use by healthcare professionals to aid the treatment of patients within NCL. However, clinical guidelines are for guidance only, their interpretation and application remain the responsibility of the individual clinician. If in doubt, contact a senior colleague or expert. Clinicians are advised to refer to the manufacturer's current prescribing information before treating individual patients.

The authors and NCL JFC accept no liability for use of this information beyond its intended use.

While we have tried to compile accurate information in this guideline, and to keep it updated in a timely manner, we cannot guarantee that it is fully complete and correct at all times. If you identify information within this guideline that is inaccurate, please report this to the admin.ncl-mon@nhs.net. If a patient is harmed as a consequence of following this guideline, please complete a local incident report and inform admin.ncl-mon@nhs.net.

Page 1 of 4

Approval date: November 2025

Review date: November 2028

This guideline should not be to used or reproduced for commercial or marketing purposes.

NCL JFC is funded by and provides advice to Provider Trusts and the Integrated Care Board in NCL.

Treatment of macular oedema secondary to retinal vein occlusion (RVO) in adults

Green: lowest cost Amber: moderate cost Red: highest cost.

If more than one treatment is suitable, the least expensive treatment should be used.

Visual impairment in the affected eye caused by macular oedema following central or branch retinal vein occlusion (RVO) in adults If patient fulfills criteria for 1 Consider switching if patient fulfills criteria Aflibercept 2mg biosimilar **Dexamethasone** 1st for 1,2 (preferred option) intravitreal implant choice TA229 TA305 / TA409 If patient did not previously respond to aflibercept 2mg Consider switching if patient fulfills criteria **Dexamethasone** 2nd Faricimab 3, 4 for 1,2 intravitreal implant TA1004 choice **TA229**

- ¹ Consider initiating on OR switching <u>from</u> anti-VEGF to dexamethasone, if a patient fulfills any of the following criteria (~8% of patients):
- Recent cardiovascular events.
- Pregnancy (if the benefits outweigh the risks).
- Patients unable to comply with injection frequency of anti-VEGFs and who have at least one of the following conditions:
- Advanced dementia, requires hospital transport, requires treatment under sedation / general anaesthesia in theatre, learning difficulties that may impact treatment regimen OR co-morbidities requiring frequent hospital appointments / inpatient admissions.

² Consider switching <u>from</u> dexamethasone to anti-VEGF if:

- Adverse drug reaction (ADR) (e.g. raised IOP).
- Initial use was due to cardiovascular event and risk has decreased/resolved.
- Patient had a better response whilst on anti-VEGF compared to steroid implants.
- ³ Ranibizumab biosimilar is available as per NICE TA283 and may be considered in specific situations e.g. allergy/ADR to previous anti-VEGF.

Commissioning notes:

• For BRVO, although NICE TAs mandate use of grid laser photocoagulation prior to dexamethasone implant (TA229) and ranibizumab (TA283), it is not the preferred treatment option in current clinical practice. Use of grid laser photocoagulation prior to using dexamethasone implant and ranibizumab for BRVO is **not** mandated in NCL.

⁴ If **faricimab** offers no added clinical benefit **OR** if an ADR has occurred, clinicians may consider switching back to **aflibercept biosimilar**.

NB: This is only permitted **once**.

Treatment regimen

Options may include a 'treat and extend' regimen, where the interval for the next anti-VEGF injection is extended by 2 to 4 weeks or a 'PRN' regimen for RVO, depending on patient response. Please refer to individual Trust guidance for further information. This would be based on best-corrected VA and OCT. Any long-term service capacity constraints should be discussed with the NCL ICB High Cost Drugs team to discuss any variations in the treatment pathway.

Monitoring (for commissioning purposes)

Best-corrected VA (Snellen) at baseline and at annual intervals should be recorded.

First line treatment options

- The first line anti-VEGF choice should be aflibercept, followed by faricimab and in certain cases ranibizumab see above for full details.
- o In certain cases, it may be clinically appropriate for dexamethasone intravitreal implant (Ozurdex®) to be used as an alternative first line option to anti-VEGF treatment (see Box 1 above). It is acknowledged that in clinical practice, patients may require re-treatment of dexamethasone intravitreal implant (Ozurdex®) every 4-6 months (<6 monthly off-label). NCL ICB commissions up to three implants per eye per year.

Switching between treatments and a sub-optimal response

- 1. Consider switching patients from aflibercept to faricimab (or ranibizumab), in patients who do not respond to at least three consecutive monthly intravitreal injections. In certain instances, patients may be switched from dexamethasone intravitreal implant to anti-VEGF treatment (see Box 2 above).
- 2. Suboptimal response is defined as persistent intraretinal fluid or subretinal fluid on OCT and unchanged (less than or equal to 5-letter improvement) / reduced VA due to RVO.
- 3. Patients established on anti-VEGF treatment may be switched to dexamethasone intravitreal implant (Ozurdex®) either temporarily or permanently. (See Box 1 above). NB: If this were a temporary switch, patients would revert to their original anti-VEGF, once clinically appropriate.

Fellow eye

Consider harmonisation of treatment of the fellow eye; this includes current treatment and previous historical treatment of the fellow eye.

The safety and efficacy of dexamethasone intravitreal implant (Ozurdex®) administered to both eyes concurrently, has not been studied and therefore, administration to both eyes concurrently is not recommended (SPC).

Treatment cessation

Treatment cessation is recommended when:

- 1. There has been no clinical improvement despite optimal treatment OR
- 2. Macular oedema has completely resolved with no potential for VA improvement OR
- 3. Best recorded VA is less than 15 letters on two consecutive visits when:
 - i. The deterioration in VA is attributed to RVO and not any other pathology AND
 - ii. It is not the patient's better seeing eye.

Approval date: November 2025 Review date: November 2028

Commissioned treatments with RAG rating based on cost:

Drug	Cost *	Maintenance dosing interval		Additional Information
		Minimum	Maximum	
Aflibercept 2mg biosimilar	£	1 month	Not stated	
Ranibizumab biosimilar	£	~1 month (4 weeks as per SPC)		May be considered if there is an allergy/reaction to a previous anti-VEGF.
Dexamethasone intravitreal implant	££	4 months		Up to a maximum of three implants per eye per year (<6 monthly off-label).
Faricimab	£££		~4 months (16 weeks as per SPC)	

^{*} Green (£): lowest cost Amber (££): moderate cost Red (£££): highest cost

Glossary

Anti-VEGF Drugs that block the action of Vascular Endothelial Growth Factor

IOP Intraocular pressure RVO Retinal Vein Occlusion

BRVO Branch Retinal Vein Occlusion
CRVO Central Retinal Vein Occlusion

VA Visual Acuity

OCT Optical Coherence Tomography
SPC Summary of Product Characteristics

References

Clinical guidelines – Retinal Vein Occlusion, The Royal College of Ophthalmologists, January 2022. Available at https://www.rcophth.ac.uk/wp-content/uploads/2015/07/Retinal-Vein-Occlusion-Guidelines-2022.pdf. Accessed 02/09/2025

Acknowledgements

NHS England. Commissioning Guidance: Medical Retinal Treatment Pathway in Macular Oedema Secondary to Retinal Vein Occlusion. October 2025.

Page 4 of 4