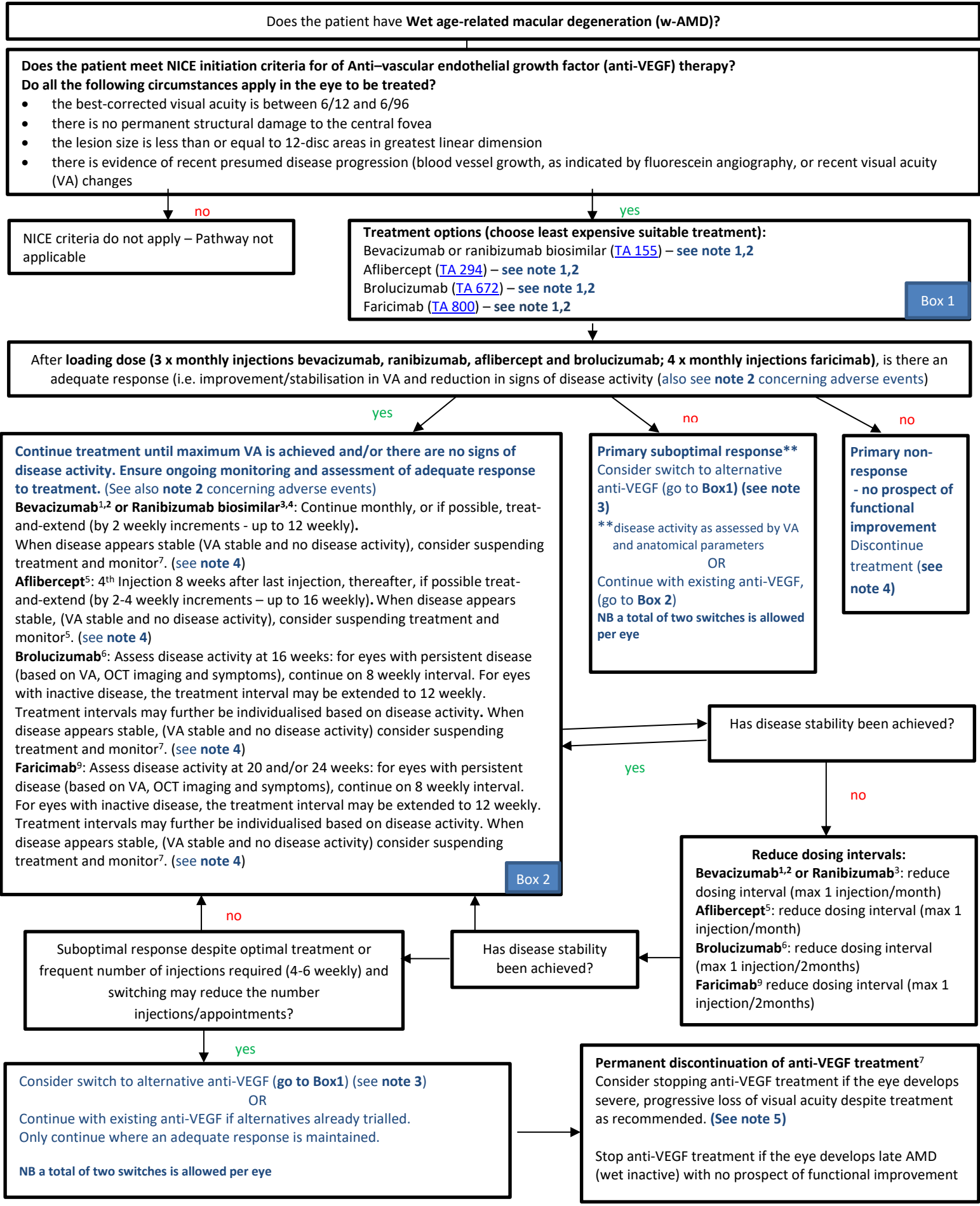


Adult (age ≥ 18 years) treatment pathway with anti-vascular endothelial growth factor therapy for wet age-related macular degeneration based on NICE TAs 155, 294, 672 & 800 and local agreements



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Note 1: If there is more than one treatment available, NICE recommends a discussion between the responsible clinician and the patient about the advantages and disadvantages of each treatment (considering therapeutic need and likely adherence to treatment). If more than one treatment option is suitable, the least expensive will be chosen (taking into account; administration costs, dosage and price per dose).
Consider using bevacizumab or ranibizumab biosimilar first line. If using bevacizumab as unlicensed this must be discussed and recorded.

Note 2 Anti VEGF adverse events; Systemic adverse events including non-ocular haemorrhages and arterial thromboembolic events have been reported following intravitreal injection of VEGF inhibitors and there is a theoretical risk that these may relate to VEGF inhibition. There is limited data on safety in the treatment of patients with prior history of stroke or transient ischaemic attacks or myocardial infarction within the last 6 months^{13,4}. See individual SPC's for other adverse events and further prescribing information.

Brolucizumab may cause intra-ocular inflammation⁴. Due to this, it is not suitable for remote clinics, initial bilateral administration, patients with a previous history of uveitis, vision in only eye or history of vein occlusion. Patients must receive information and be counselled on the adverse effects of brolucizumab (to be documented in the patient notes). Clinical staff must exclude history of prior intra-ocular inflammation and should use a red flag questionnaire after each injection to identify signs and symptoms of intra-ocular inflammation. Patients with positive symptomatology would then be further screened with slit-lamp examination supported with widefield retinal imaging if deemed appropriate. Further brolucizumab treatment should be withheld in cases with retinal vasculitis/vascular occlusion.

Local agreement; the pathway allows for a switch to alternative anti VEGF if first anti VEGF had to be stopped due to an adverse event (either before efficacy could be assessed (i.e. before 3 consecutive monthly injections) or in patients who are responding to first anti VEGF treatment)

Note 3: Sequential anti-VEGF treatment: Local agreement; For patients with suboptimal response, maximum two anti-VEGF switches per eye are included in the pathway. Sequential anti-VEGF treatment in the same eye is not commissioned for non-responders. Evidence for switching is limited.^{1,2,3,4,5}

NICE guideline 82 states 'Consider switching anti-VEGF treatment for people with late AMD (wet active) if there are practical reasons for doing so (for example, if a different medicine can be given in a regimen the person prefers) but be aware that clinical benefits are likely to be limited'.⁵ When switching anti-VEGF, reloading may not be required unless there is a significant break in treatment.⁶ Patients can revert back to previous treatment option if desired outcomes of a switch are not achieved.

1. Gale RP et al. Anatomical and functional outcomes following switching from aflibercept to ranibizumab in neovascular age-related macular degeneration in Europe: SAFARI study. Br J Ophthalmol 2019; 0:1-7

2. Barthelmes D et al. Effects of switching from ranibizumab to aflibercept in eyes with exudative age-related macular degeneration. Br J Ophthalmol 2016; 0: 1-6

3. Mantel I et al. Switching between ranibizumab and aflibercept for the treatment of neovascular age-related macular degeneration. Survey of Ophthalmology 2018; 63:638-645

4. Bulisch L et al., 'Short-term real-world outcomes following intravitreal brolucizumab for neovascular AMD: SHIFT study', Br J Ophthalmol 2021;0:1-7

5. Age related macular degeneration, NICE guideline 82, published 23rd January 2018

6. Local clinical expertise

(adapted from Proposed SWL Drua Pathway Wet Age-related Macular Degeneration (not published – draft only available)

Note 4: Stable disease – consider observation without giving anti-VEGF treatment if the disease appears stable⁷

- Advise people with late AMD (dry), or people with AMD who have been discharged from hospital eye services to: self-monitor their AMD, consult their eye-care professional as soon as possible if their vision changes, continue to attend routine sight-tests with their community optometrist.
- **Self-monitoring:** Discuss self-monitoring with people with AMD and explain the strategies available. Advise people with AMD to report any new symptoms or changes in the following to their eye-care professional as soon as possible (such as blurred or grey patch in their vision, straight lines appearing distorted, objects appearing smaller than normal). Encourage and support people with AMD who may lack confidence to self-monitor their symptoms. If people are not able to self-manage their AMD, discuss AMD monitoring techniques with their family members or carers (as appropriate)

Note 5: permanent stopping criteria⁸

- BCVA in the eye to be treated is less than 15 letters absolute on 2 consecutive visits, attributable to AMD, in the absence of other pathology
- Reduction in BCVA of 30 letters or more compared to either baseline and/or best recorded level since baseline as this may indicate lack of responsiveness to treatment, or adverse event or both
- There is a hypersensitivity reaction to treatment (established or suspected)
- Lesion morphology has deteriorated while on optimum treatment

References:

1. Shienbaum G et al., 'Bevacizumab for neovascular age related macular degeneration using a treat and extend regimen: clinical and economic impact.' <https://www.sciencedirect.com/science/article/abs/pii/S0002939411006362>
2. Berg K et al., 'ranibizumab or bevacizumab for neovascular age-related macular degeneration according to the lucentis compared to avastin study treat and extend protocol: two years results.' <https://www.sciencedirect.com/science/article/abs/pii/S0161642015010404>
3. www.medicines.org.uk Lucentis 10 mg/ml solution for injection in pre-filled syringe accessed via <https://www.medicines.org.uk/emc/product/5418/smpc> 28/05/2021.
4. Amoakye W. et al., 'Initiation and maintenance of a Treat-and-Extend regimen for ranibizumab therapy in wet age related macular degeneration: recommendations from the UK Retinal Outcomes Group, Clinical Ophthalmology 2018;12 1731–1740
5. www.medicines.org.uk Eylea 40 mg/ml solution for injection accessed via <https://www.medicines.org.uk/emc/product/2879/smpc> 28/05/2021
6. www.medicines.org.uk Beovu 120mg/ml solution for injection accessed via <https://www.medicines.org.uk/emc/product/11145> 28/05/2021

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7. Age related macular degeneration, NICE guideline 82, published 23rd January 2018 (accessed 28/5/2021)
(NB: published prior to brolocizumab launch in the UK)
8. The Royal college of ophthalmologists, age-related macular degeneration- guidelines for management, September 2013
9. www.medicines.org.uk Vabysmo 120 mg/mL solution for injection accessed via <https://www.medicines.org.uk/emc/product/13741> 17/10/22

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