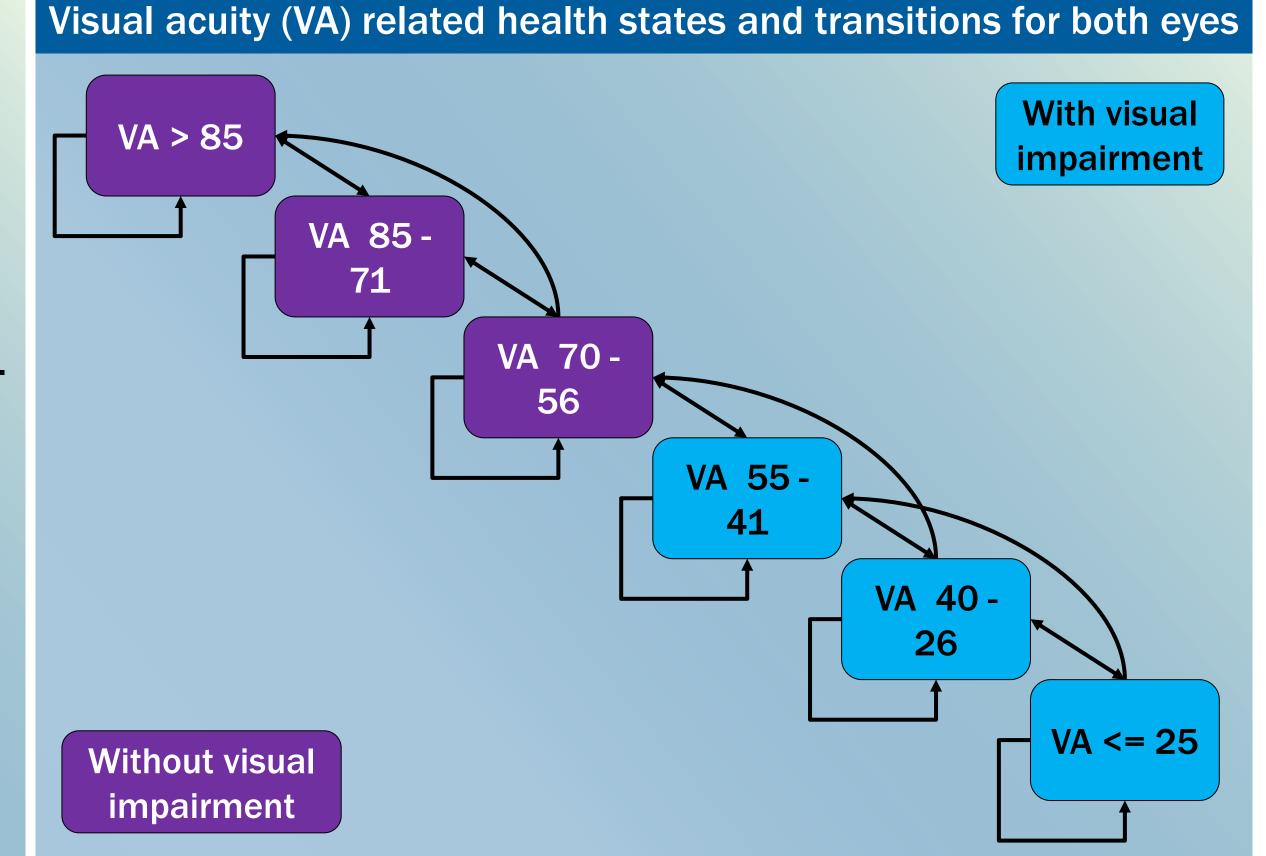
Cost-Minimization of Faricimab Vs Aflibercept 8 Mg in Patients with Neovascular Age-Related Macular Degeneration Evaluating the Impact of Retreatment Criteria

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Introduction

- Faricimab is a bispecific antibody targeting ANG-2 and VEGF for the treatment of neovascular agerelated macular degeneration (nAMD).
- In the TENAYA and LUCERNE trials,¹ patients were treated with faricimab in a Treat & Extend (T&E) regime requiring simultaneous visual acuity and anatomical stability to determine treatment intervals.
- Recently, aflibercept 8 mg has been investigated in the PULSAR² as well as the CANDELA³ trial. PULSAR applied less stringent disease activity criteria than recommended for clinical practice⁴ to determine patient's ability to extend treatment intervals after the loading period. Hence, it may be challenging to reproduce the results in routine care.
- This research aims to assess the costs of faricimab vs. aflibercept 8 mg simulating the use of more comparable disease activity criteria.



Methods

Scenario: Treatment interval distribution and annual injections

- A Markov cohort model illustrated on the left based on the NICE guideline review⁵ was developed to estimate bilateral visual acuity linked to life expectancy, injection frequency and associated costs from a UK healthcare system perspective.
- The base case was informed by the interval distribution in TENAYA & LUCERNE for faricimab and the CANDELA trial for aflibercept 8 mg since the study used a more comparable definition of disease activity.
- Deterministic sensitivity analyses were performed for costs and key model parameters. In a scenario analysis, interval distributions were informed by PULSAR for aflibercept 8 mg and TENAYA & LUCERNE for faricimab simulating the disease activity criteria from PULSAR.⁶
- Time horizon was 25 years to reflect a life time horizon.
- Drug prices were based on publicly available list prices in the UK (faricimab: 857 £, aflibercept 8 mg: 998 £).

■ faricimab T&E

6.3

Loading

7.1

Results

aflibercept 8 mg

Maintenance

Results

Disease activity criteria for treatment intervals

	Base case	Scenario
Disease activity criteria	Visual acuity OR anatomical findings	Visual acuity AND anatomical findings
Reference	Faricimab: TENAYA & LUCERNE at one year	Faricimab: TENAYA & LUCERNE at Week 20 (simulation)*
	Aflibercept 8 mg: CANDELA at Week 44	Aflibercept 8 mg: PULSAR at Week 48

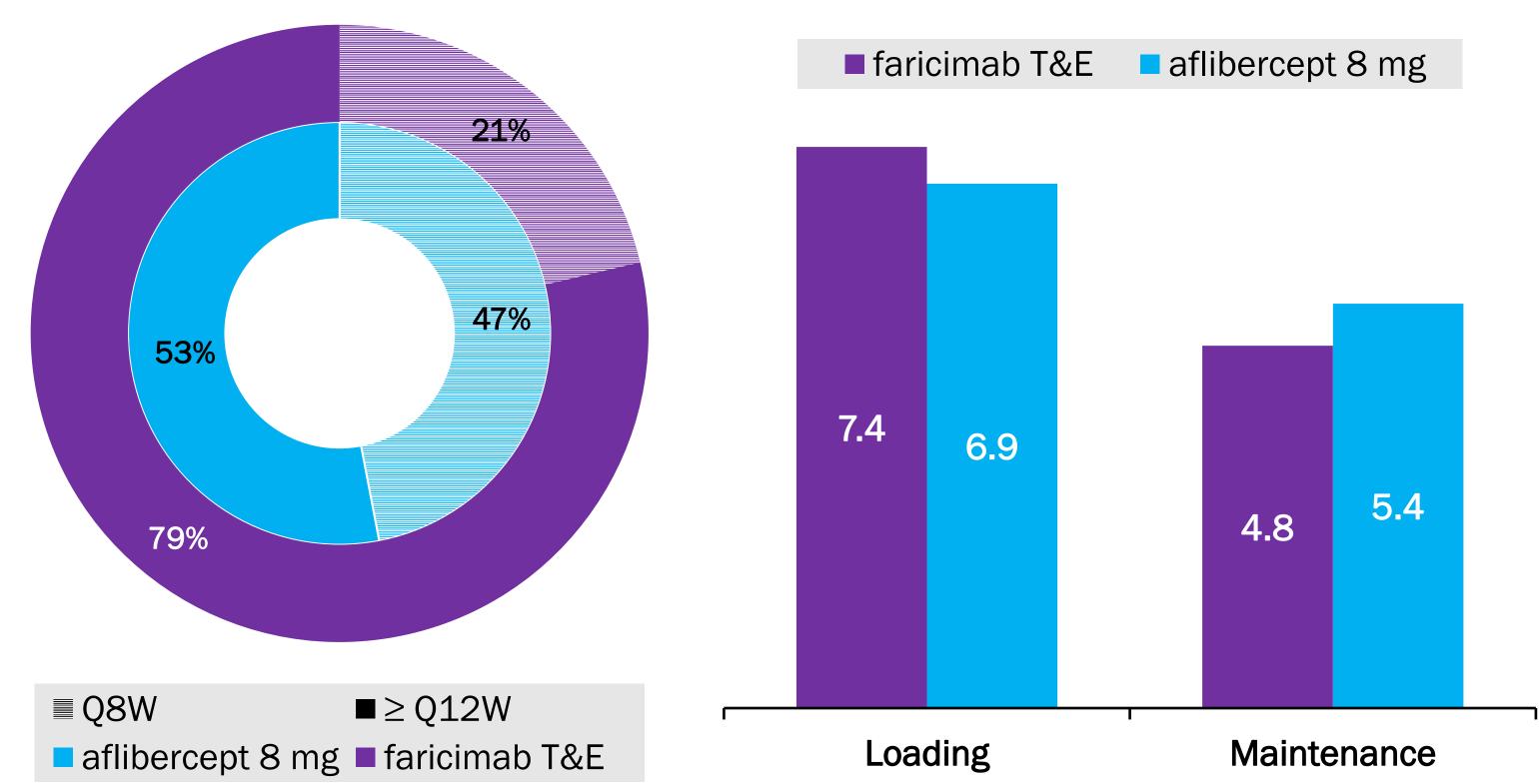
* Treatment intervals thereafter were fixed until week 60.

■ aflibercept 8 mg ■ faricimab T&E

Summary:

The base case/scenario analysis simulates treatment intervals in case visual acuity and/or anatomical criteria must be met to assign intervals.

Base case: Treatment interval distribution and annual injections



Summary:

■ Q8W

Consistently, more patients on faricimab T&E achieve intervals of $\geq Q12W$ leading to fewer annual injections during the maintenance phase.

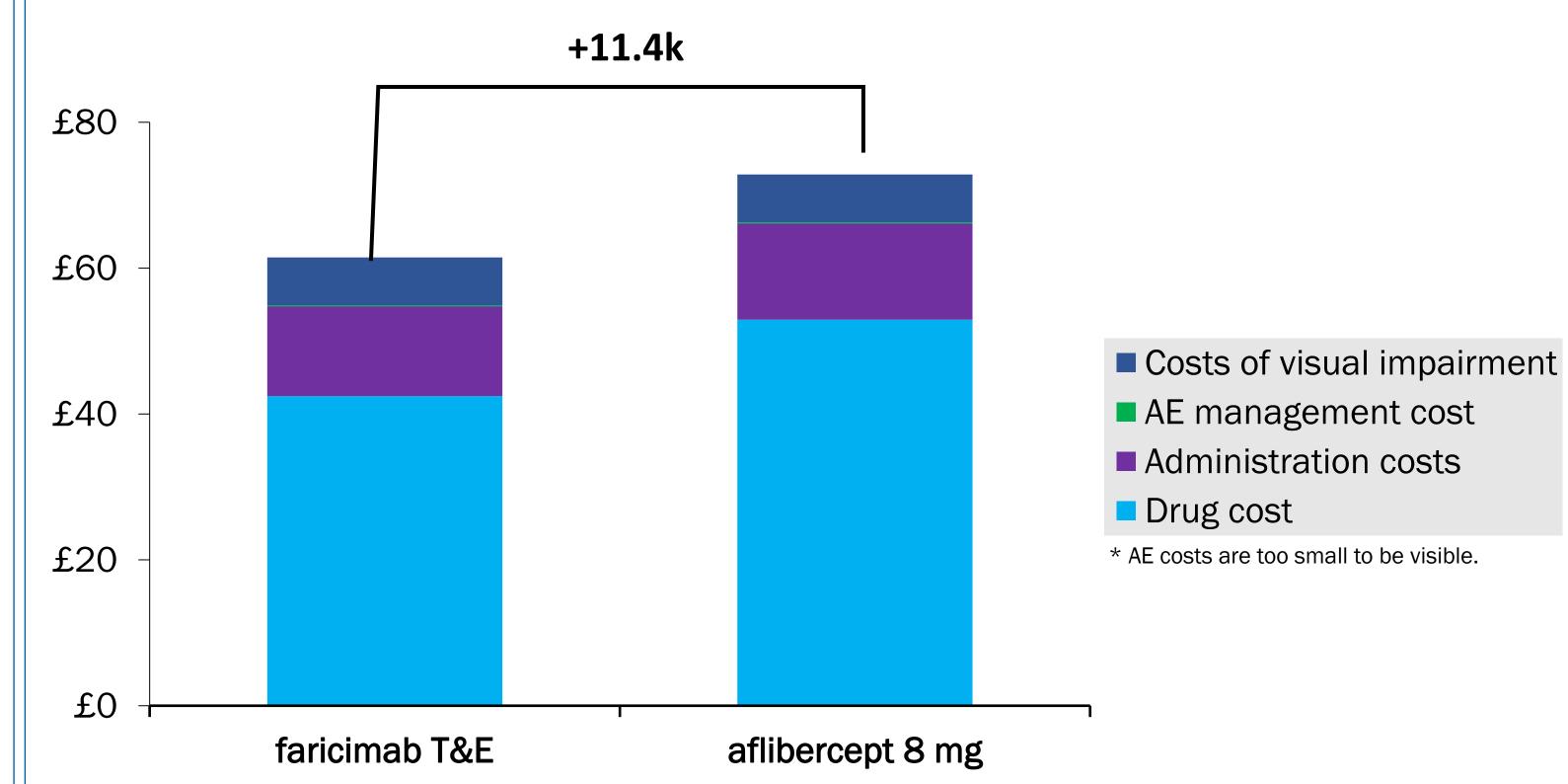
Summary of costs (in thousand GBP)

■ ≥ Q12W

17%

83%

96%



Summary:

More patients on faricimab T&E achieve intervals of \geq Q12W leading to fewer annual injections during the maintenance phase. Faricimab treatments are higher in the first year due to a longer loading phase.

Summary:

Total costs of faricimab T&E are substantially lower vs. aflibercept 8 mg. This is driven by less treatments over a lifetime and associated lower drug and administration related costs.

Conclusions



Faricimab offers an innovative option enabling patients to potentially extend their treatment intervals for longer, thereby reducing their treatment burden as well as expanding health system capacities.



Sensitivity and scenario analyses were consistent with the base case.



The base case results indicate that faricimab T&E might be cost-saving compared to aflibercept 8 mg over lifetime when analyzing treatment regimens reflecting recommendations for clinical practice.



The analysis highlighted the relevance of the criteria being used to evaluate disease activity and, consequently, treatment intervals. Therefore, retreatment criteria should be harmonized when doing indirect comparisons of durability.