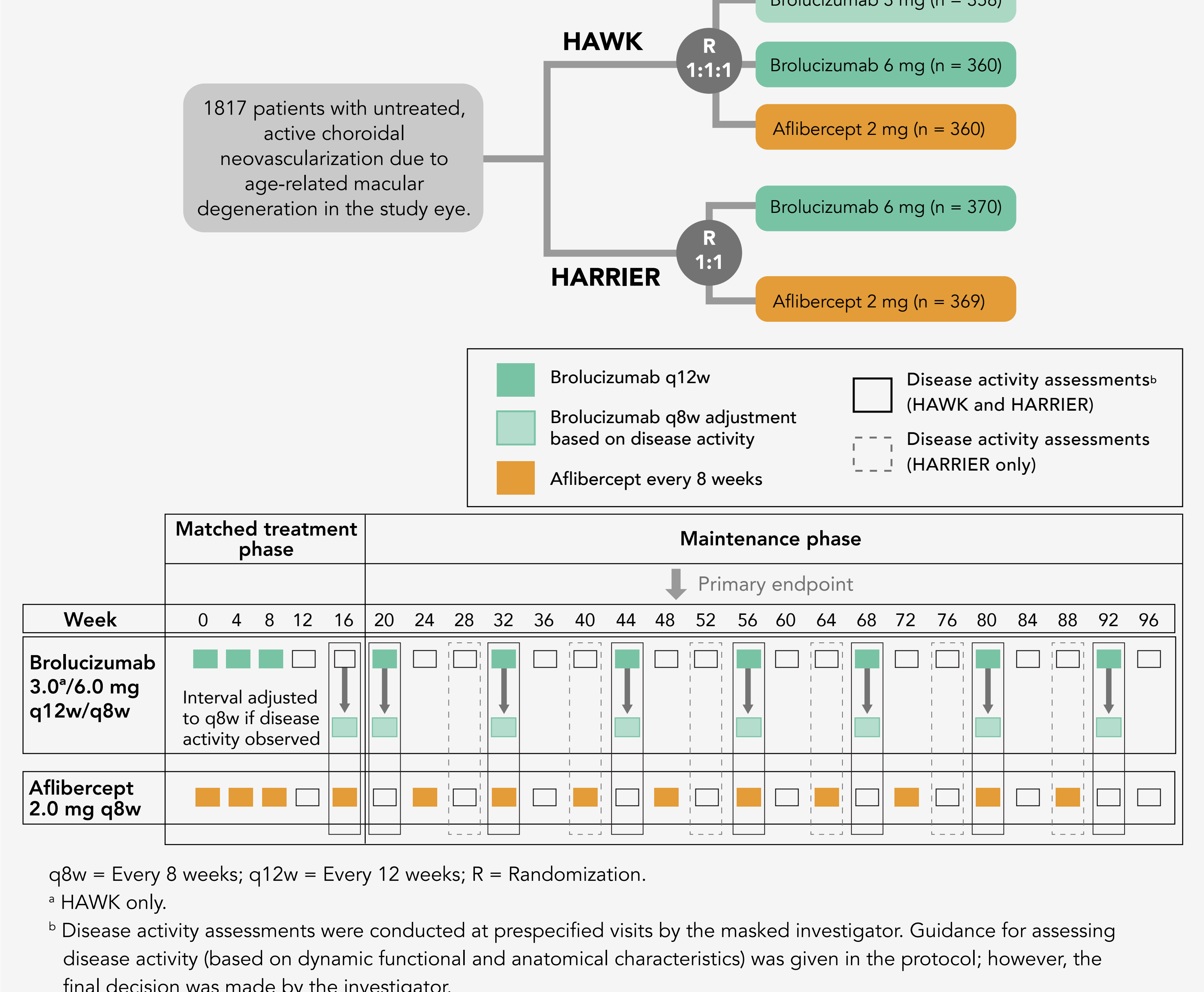


# HAWK and HARRIER: Phase 3, Multicenter, Randomized, Double-Masked Trials of Brolucizumab for Neovascular Age-Related Macular Degeneration

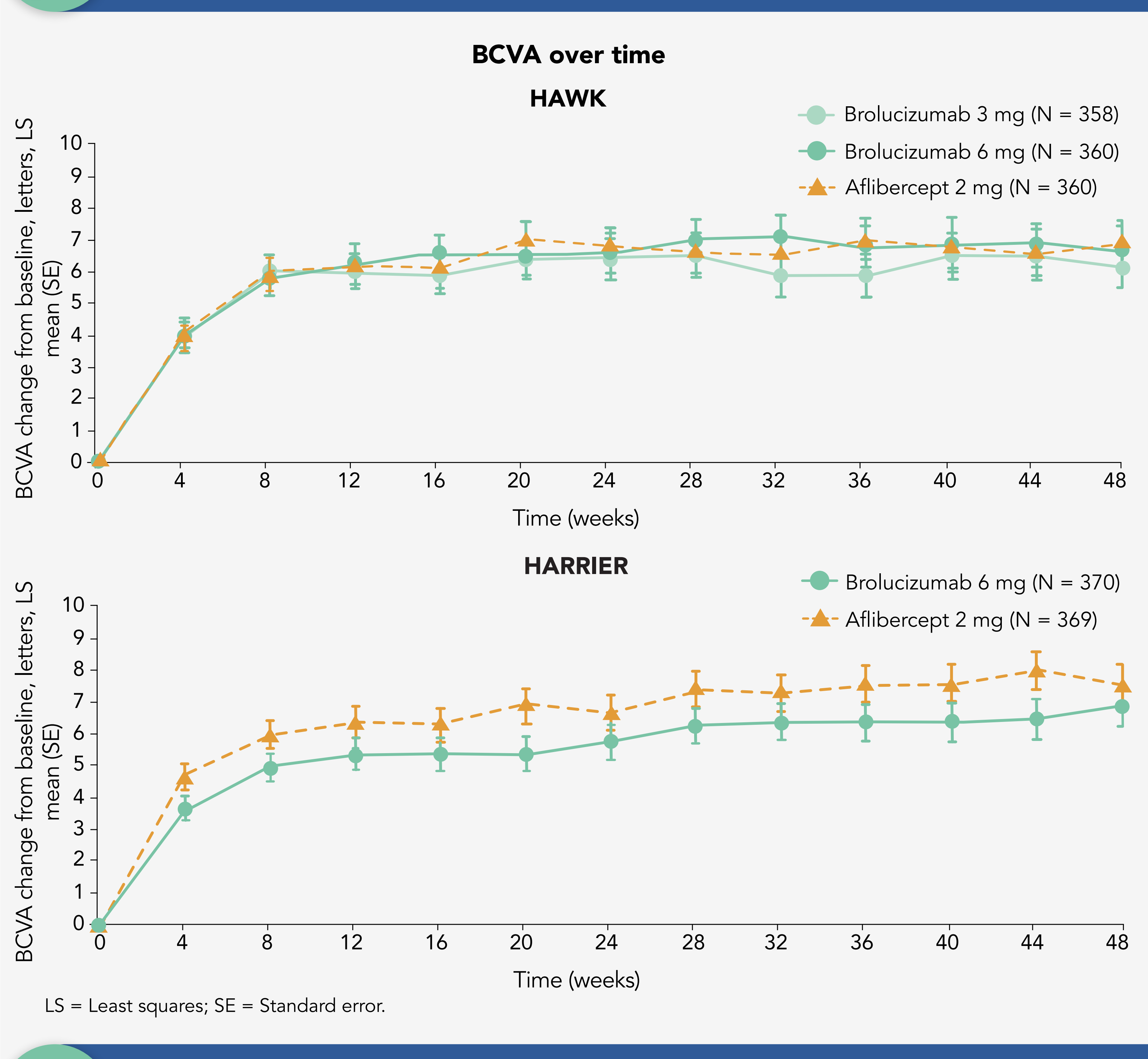
Dugel PU, Koh A, Ogura Y, et al. *Ophthalmology*. 2020;127(1):72-84.  
doi: 10.1016/j.ophtha.2019.04.017

The primary objective of both HAWK and HARRIER was to compare brolucizumab, a single-chain antibody fragment that inhibits vascular endothelial growth factor-A, with aflibercept to treat neovascular age-related macular degeneration (nAMD). Both phase 3 trials were similarly designed, with the primary hypothesis of noninferiority in mean best-corrected visual acuity (BCVA) change from baseline to Week 48 (margin: 4 letters).

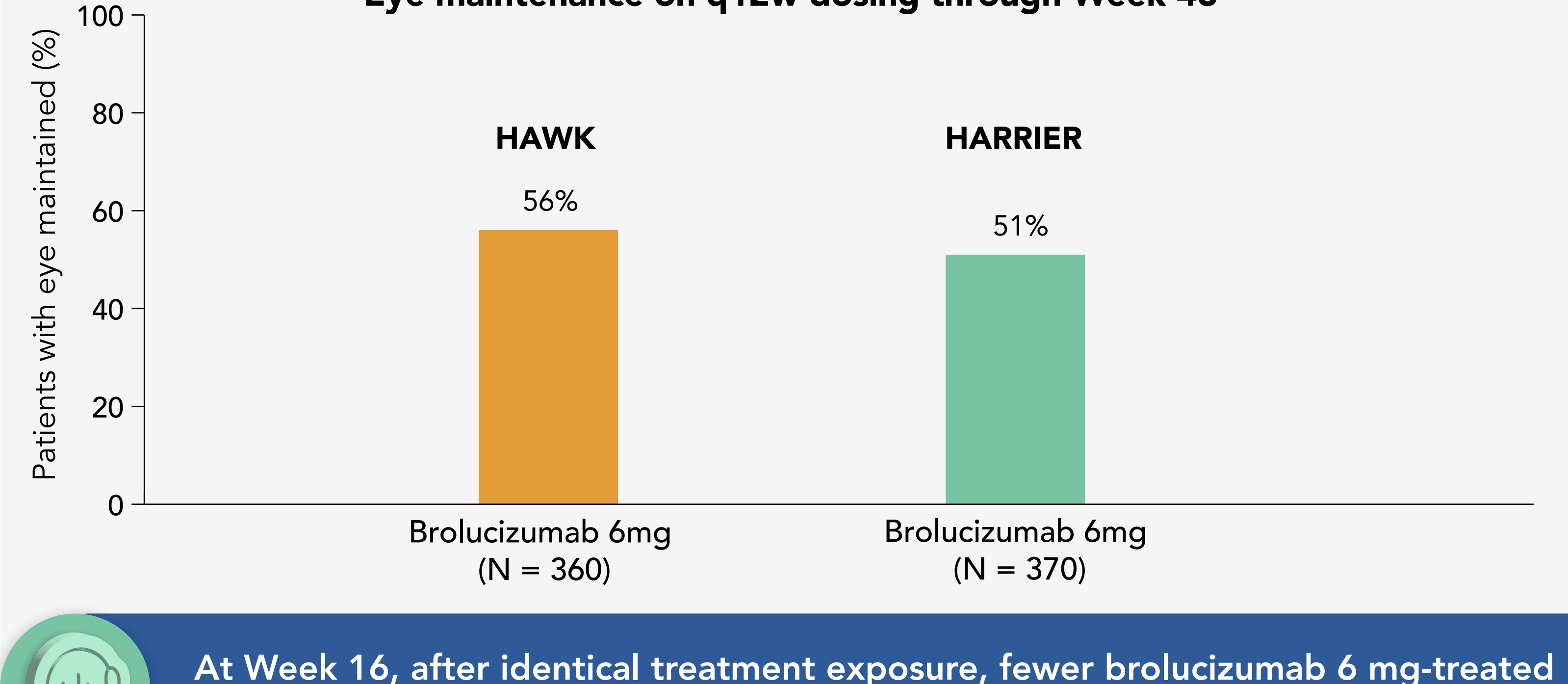
Patients were randomized to intravitreal brolucizumab 3 mg (HAWK only) or brolucizumab 6 mg or aflibercept 2 mg.



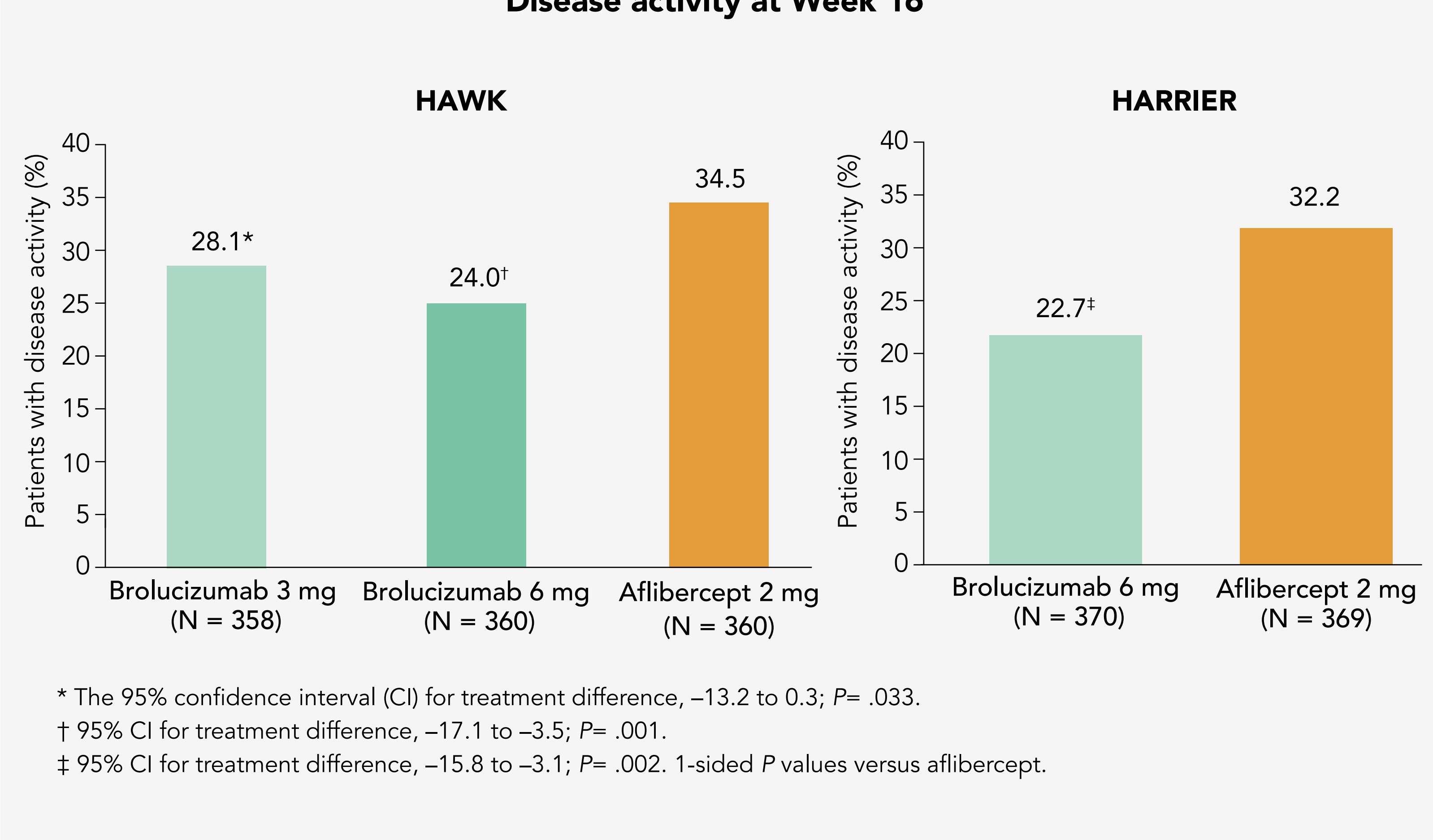
At Week 48, each brolucizumab arm demonstrated noninferiority to aflibercept in BCVA change from baseline.



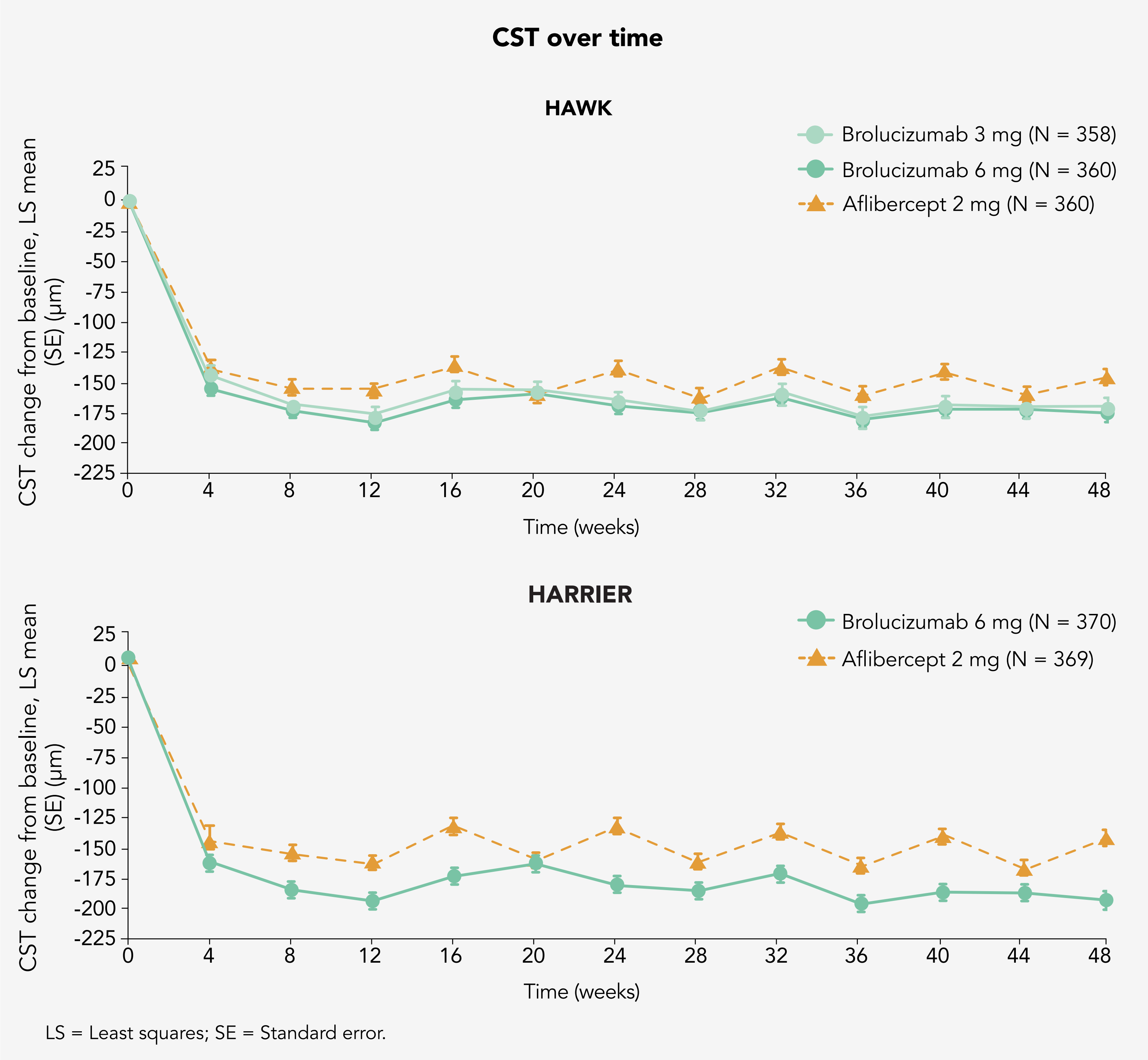
Greater than 50% of brolucizumab 6 mg-treated eyes were maintained on q12w dosing through Week 48.



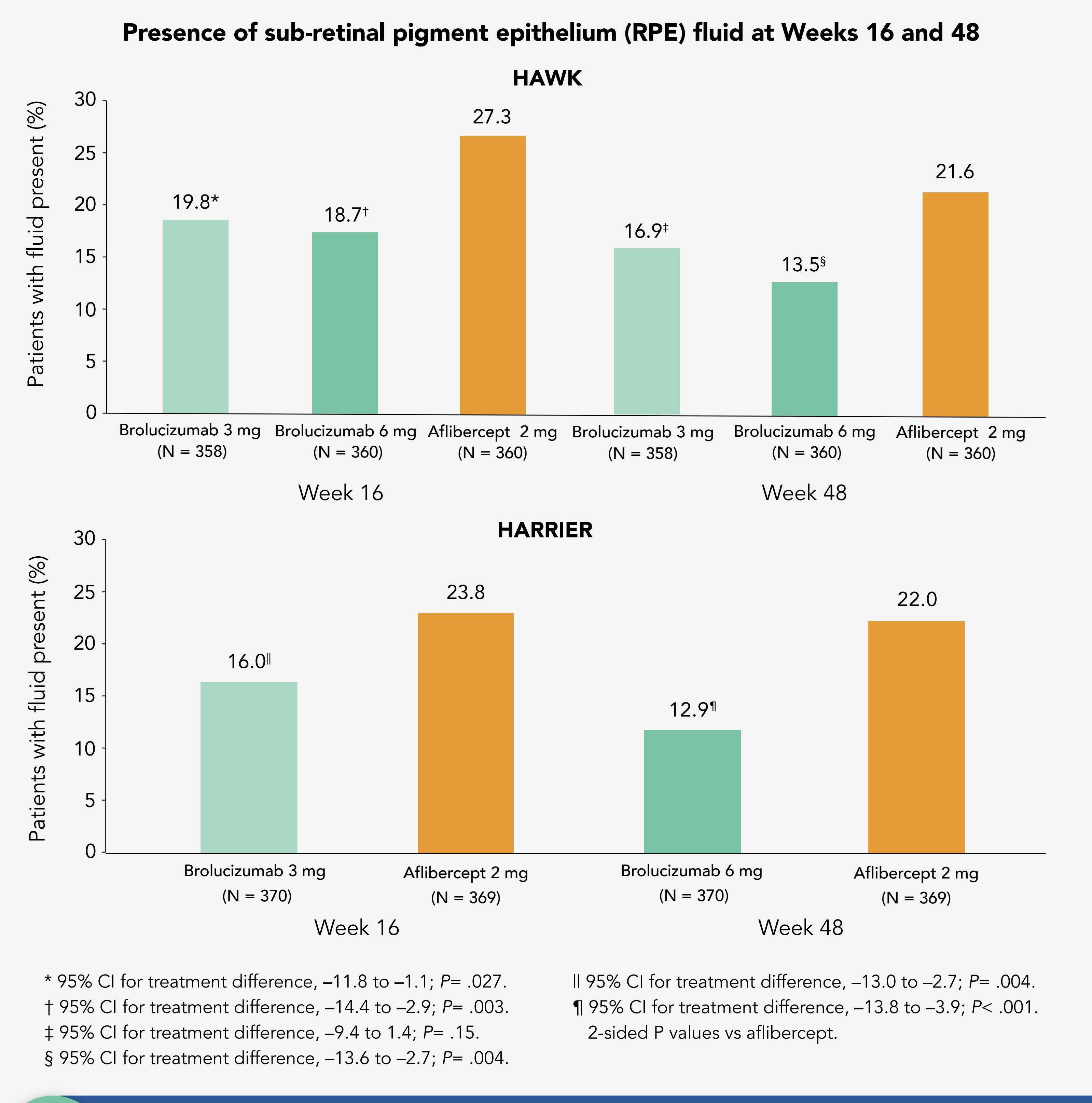
At Week 16, after identical treatment exposure, fewer brolucizumab 6 mg-treated eyes had disease activity versus aflibercept in HAWK.



Greater central subfield thickness (CST) reductions from baseline to Week 48 were observed with brolucizumab 6 mg versus aflibercept in HAWK (LS mean -172.8 μm vs -143.7 μm; P= .001) and HARRIER (LS mean -193.8 μm vs -143.9 μm); P< .001).



Anatomic retinal fluid outcomes favored brolucizumab over aflibercept.



**Conclusions**

**Brolucizumab was noninferior to aflibercept in visual function at Week 48, and >50% of brolucizumab 6 mg-treated eyes were maintained on q12w dosing interval through Week 48. Anatomic outcomes favored brolucizumab over aflibercept. Overall safety with brolucizumab was similar to aflibercept, although an imbalance of serious adverse events of uveitis (both trials) and endophthalmitis (HAWK) for brolucizumab was observed. The incidence of serious ocular adverse events was low in both trials, with no event occurring in >1% of eyes.**