

# Baseline factors affecting changes in diabetic retinopathy (DR) severity scale score after intravitreal aflibercept or laser for diabetic macular edema (DME)

## Post-hoc Analyses from VISTA and VIVID

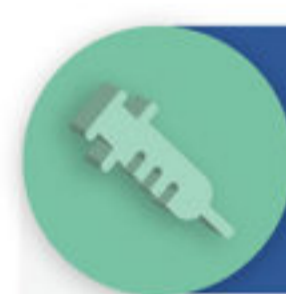
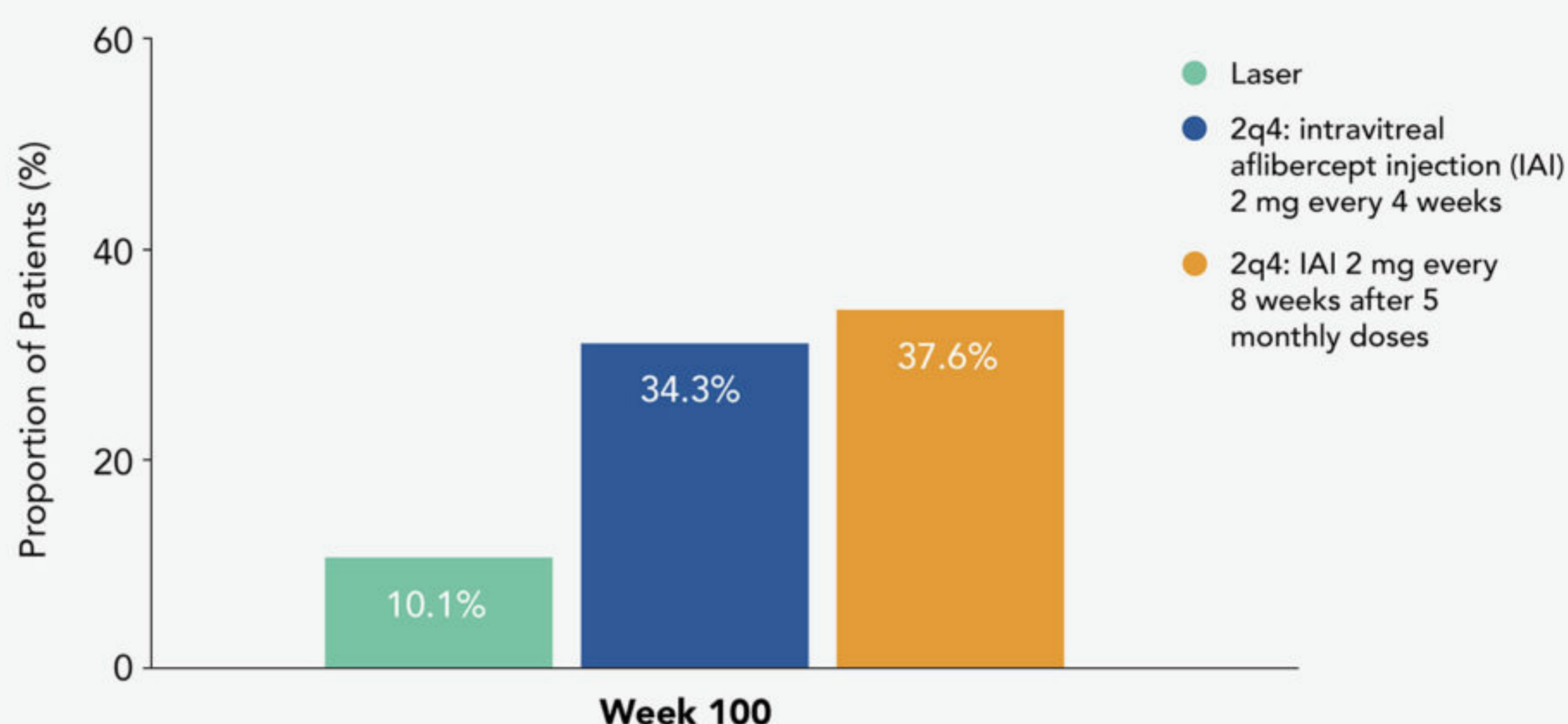
Dhoot DS, Baker K, Saroj N, et al. *Ophthalmology*. 2018;125:51-56.  
doi:10.1016/j.ophtha.2020.06.028

The purpose of this study was to evaluate whether select baseline systemic and ocular factors influence  $\geq 2$ -step improvement in the Diabetic Retinopathy Severity Scale (DRSS) score at week 100 in 2 similarly designed phase 3 trials, VISTA and VIVID.



Greatest 2-step DRSS score improvement was seen in the aflibercept 2q8 group.

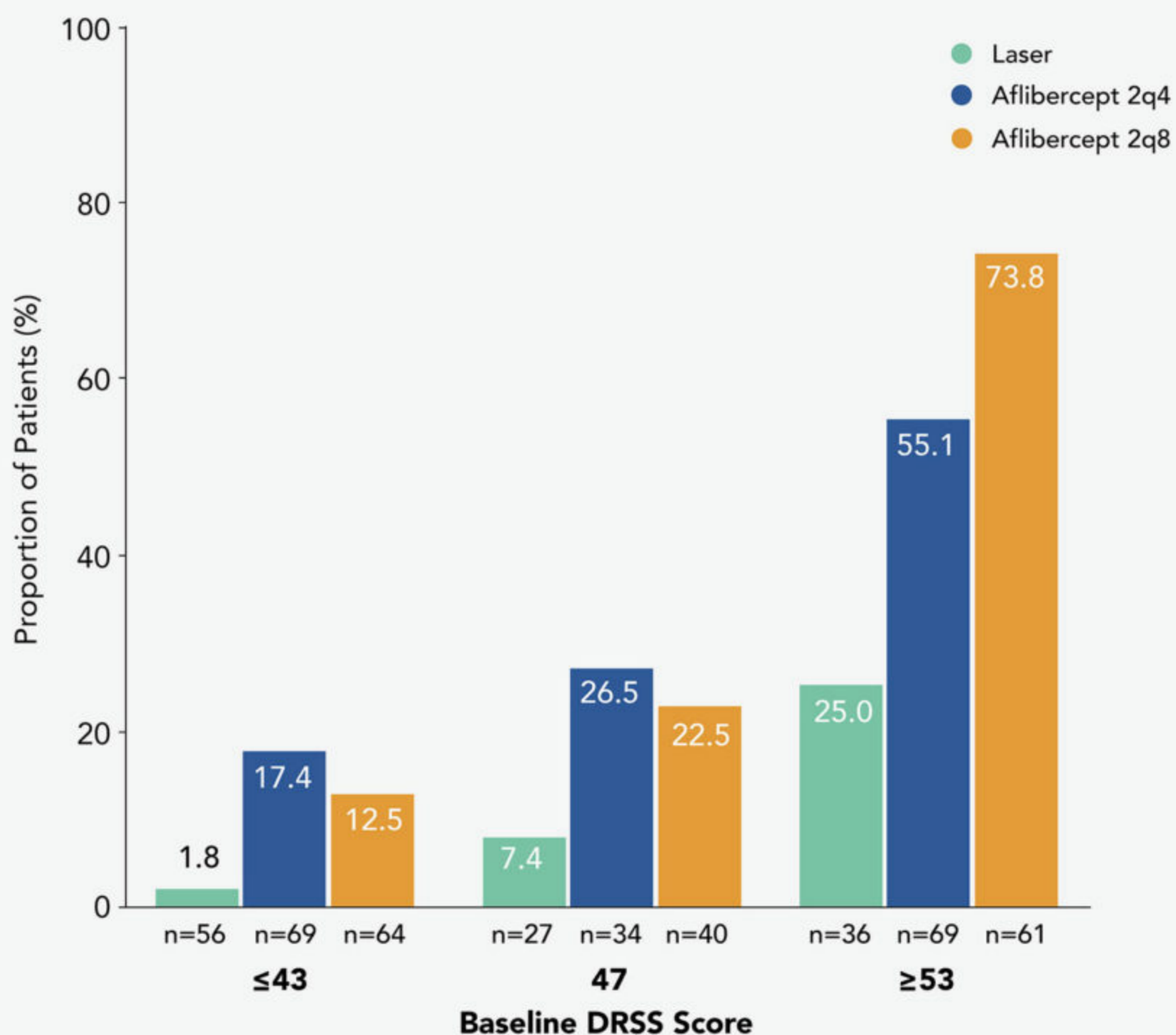
Proportion of patients experiencing  $\geq 2$ -step DRSS improvement from baseline



Initial DRSS score was the only factor significantly associated with  $\geq 2$ -step improvement in DRSS score in all treatment groups at weeks 24, 52, 76, and 100.

Age, duration of diabetes, hemoglobin A1c (HbA1c), body mass index (BMI), best-corrected visual acuity (BCVA), and central subfield thickness (CST) **had no impact** on the ability to achieve  $\geq 2$ -step improvement in DRSS score.

Proportion of patients with  $\geq 2$ -step improvement in DRSS from baseline to week 100 by baseline DRSS score



Relatively higher proportions of intravitreal aflibercept injection (IAI)-treated patients with worse BCVA or thicker CST experienced 2-step DRSS score improvement compared with those with better BCVA or thinner CST, respectively, but these associations were not statistically significant.



### Conclusions

A strong association was present between baseline DRSS score and  $\geq 2$ -step DRSS score improvement at week 100 for DME patients in the VISTA and VIVID trials.