Response to ‘Night-vision tests for evaluating visual performance’

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Dear Editor:

We thank Jiménez and associates for their interest in our article [1]. Their series of studies [2–5] that evaluated night vision and various ocular diseases are very valuable, and have had a great impact on many other studies. We agree that our night vision testing device is similar to the halometer that Jiménez et al. reported [2] in terms of the design and structure. In our study, Fourier analysis revealed that corneal higher order irregular astigmatism was the main cause of night vision difficulties after orthokeratology treatment. The report by Jiménez et al. showed that after laser in situ keratomileusis and orthokeratology treatment, the eye had increased higher order aberration concomitant with decreased contrast sensitivity [6]. Their report indeed supported our results. If future studies can reveal which Zernike coefficients are mainly responsible for night vision disturbances such as halo and glare, refractive surgery and contact lens technologies would be further improved.

Disclosure None

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