Comment on “Factors affecting single-step transepithelial photorefractive keratectomy outcome in the treatment of mild, moderate, and high myopia: a cohort study”

Suraj Kumar Chaurasiya1, Vishmarika Sharma1, Pradeep Agarwal2

1Department of Optometry and Vision Science, C L Gupta Eye Institute, Ram Ganga Vihar Phase II (Extn.), Uttar Pradesh, Moradabad 244001, India
2Department of Paediatric and Neuro Ophthalmology, C L Gupta Eye Institute, Ram Ganga Vihar Phase II (Extn.), Uttar Pradesh, Moradabad 244001, India

Correspondence to: Suraj Kumar Chaurasiya. CL Gupta Eye Institute, Ram Ganga Vihar Phase II (Extn.), Uttar Pradesh, Moradabad 244001, India. csurajk414@gmail.com; suraj@clgei.org

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Dear Editor,

I would like to congratulate the author on their excellent paper. With great interest, I read Al-Mohaimeed et al’s study[1] “Factors affecting single-step transepithelial photorefractive keratectomy outcome in the treatment of mild, moderate, and high myopia: a cohort study”. In this original article, it has been mentioned that “the myopia is grades as mild (<-3 D) and severe (≥-6 D)”. However, earlier authors stated that when considering the quantitative limits and definitions of myopia, one issue warranting standardization is the use of statistical comparison symbols (e.g., <, >, ≤, and ≥) and non-mathematical terms indicating a larger or smaller number. Myopic refractions are best expressed as negative values of diopters. Myopic regression is best expressed as negative values of diopters. This creates potential ambiguity when comparing degrees of myopia. For example, does “<5.00 D” mean a refractive error more myopic than 5.00 D or a refractive error less myopic than 5.00 D? Both definitions are widely used. Optics is a very mathematical science, and any quantitative explanations must be mathematically valid. The most consistent approach is always to treat myopic refractive errors as negative values and to use mathematical terms in their strict mathematical sense, so <5.00 D of myopia means refractive errors with values greater than a minus, and, therefore, myopic greater than 5.00 D[2-5].

If the description is made in words and mathematical figures (such as being less than a negative number of diopters), then refraction of “less than 5.00 D” should be explained as “more myopic”. If myopia is defined as a positive dioptric value, then the constant statistical method shows that “more than 5.00 D of myopia” represents an additional objection is myopic than 5.00 D. Similarly, phrases such as “high levels of myopia” should be interpreted as more myopic prescriptions[3]. It would be simpler for everyone if the author can additionally concentrate on specific sorts of symbols. However, this study showed a very useful result that one-step transepithelial photorefractive keratectomy has promising short-term results for refractive correction and improvement of vision to treat all three degrees of myopia[1].

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REFERENCES