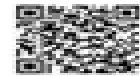




Laser Refractive Surgery (LRS) with Laser Asymmetric Keratectomy (Crescentic LRS) to Avoid LRS Adverse Effects



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Abbreviations: LRS: Laser Refractive Surgery; LAK: Laser Asymmetric Keratectomy

Opinion

After laser refractive surgery (LRS), adverse effects such as myopic regression, blurring, and in severe cases, halos at night are reported in a fraction of patients due to corneal biomechanical interaction of corneal thickness, corneal stiffness and IOP, resulting in optical aberrations [1-6]. Deviations in corneal thickness is a major factor in causing LRS adverse effects [5-10]. The sum of corneal central thickness deviations in four directions on Orbscan map (SUM) as a new evaluation index of corneal asymmetry was reported [7-15]. Recently, laser asymmetric keratectomy (LAK) has been reported, which is a biomechanical customized asymmetric corneal ablation method with full integration of Vision UP software and applied to avoid LRS adverse effects [7-10], a novel approach to enhancement in patients with myopic regression after LRS [11-13] and a new corneal remodeling technique in keratoconus suspect without postoperative corneal ectasia [14,15]. LRS combined with LAK (that is, so called as crescentic LASEK or LASIK) corrected refractive power and ablate on the thick peripheral cornea with integration of Vision UP software® to make cornea to be symmetric and ablate induced myopia due to LAK simultaneously. We recommend the conventional LRS to correct the refractive errors in myopic patients with relative symmetric cornea (SUM (80 µm preoperatively)), but LRS (LASIK or LASEK) combined LAK (crescentic LRS) can produce better surgical outcomes on myopic patients with asymmetric corneal thickness (SUM on Orbscan maps ≥80 µm) without LRS adverse effects.

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Jessica J Manson



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