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Use free anterior capsule as an endothelial cells protector during femtosecond laser assisted cataract surgery**Shaowei Li, Xu Chen, Jun Zhao and Man Xu**
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We will report several unique cases of using free anterior capsule as an endothelial cells protector during femtosecond laser assisted cataract surgeries. Three cases of cataract patients with very low endothelial cell density were chosen to accept this procedure. These cases have a very potential to receive endothelial transplantation after cataract surgery, the situation was informed to them and consents were signed. Femtosecond laser assisted cataract surgeries were conducted, after femtosecond laser treatment by LenSx, the freed anterior capsule was lifted by viscoelastic agent and was attached to patient's corneal endothelial layer firmly. Then the phacoemulsification was performed as routine procedure. After IOL implantation, the anterior capsule was removed by gentle irrigation and aspiration by I/A tip. No corneal edema and other complications were observed in all cases. The unique method may have potential benefit to cataract patients.

Biography

Shaowei Li has worked in ophthalmology since 1989. He has pursued his Post-doctoral training in Corneal Diseases at Louisiana State University Eye Center under Professor Herbert E. Kaufman. With over 20 years of experience in ophthalmology, he specializes in corneal diseases, cataract, refractive surgery and anterior segment diseases. Prior to joining Aier Ophthalmology, he has worked at Shandong Eye Institute as a Vice Director and Professor for more than 16 years. In 2006, he is the first Doctor who performed femtosecond laser assisted corneal transplantation in China. He is also the Council Member of the Cataract Subspecialty Group of the 8th Chinese Ophthalmology and the 8th Chinese Ophthalmology Society. He is currently the Deputy Director of the Academic Committee of Aier Eye Hospital Group, Chairmen of Aier Eye Bank, Chairmen of Corneal Diseases Group of Aier Eye Hospital Group. He has published more than 90 papers in various Chinese and international medical journals, co-authored 4 books on ophthalmology, undertaken medical researches on 21 national provincial and ministerial-level topics and won 11 awards.

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