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Modified Lower Blepharoplasty with Fat Repositioning via Transconjunctival approach to correct Tear Trough Deformity

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Over the years, many techniques have been described to correct eye bag with tear trough deformity (TTD). Fat- repositioning lower blepharoplasty via a transconjunctival approach is increasingly applied due to its satisfactory rejuvenating effect. However, traditional methods have disadvantages such as a complicated surgical approach, difficulty of orbital fat fixation, hemorrhage and long recovery time. We modified the surgical technique of transconjunctival orbital fat release and repositioning via pre-maxillary and pre- zygomatic space with an effective but easy internal fixation method. From January 2017 to December 2021, 110 patients underwent bilateral modified lower blepharoplasty with fat-repositioning. Preoperatively, the grade of TTD was evaluated according to Barton's grading system. Postoperative results and complications were assessed during the follow-up period. TTD was ameliorated in 97.73% of the cases; the remaining 2.27% cases with few improvement underwent revision and achieved Grade 0 on Barton's grading system thereafter. All patients were satisfied with the final outcome. Few postoperative complications were observed, none of which led to a permanent condition.

For TTD without severe orbital skin laxity, the modified surgical technique of fat repositioning with a transconjunctival lower blepharoplasty and internal fat-flap fixation via pre-maxillary and pre- zygomatic space is safe and has a pleasant cosmetic outcome. Comparing to conventional orbital fat repositioning technique using external fat fixation, the advantage of our method is that the recovery time is shorter, patients can return life to normal soon after the surgery. On the other hand, pre-maxillary and pre- zygomatic space are natural soft-tissue spaces of midface. As a result, advancing and fixation the orbital fat via these two spaces cause less hemorrhage within the surgery, the procedure can be performed exquisitely and reduce post-op edema.

Biography

Feng Xie is a Associatie professor in Plastic & Reconstructed Surgery department in Ninth Hospital affiliated by medical school of Shang Hai JiaoTong University. He obtained the both his Doctor degree and PhD degree in Shang Hai JiaoTong University in 2006. He is engaged in treatment of Congenital giant naevus for more than 10 years. The department of Plastic & Reconstructive surgery of Ninth hospital is the most famous plastic center of China. It has 300 beds and more than 100 physicians in the department. Dr. Xie has engaged in Plastic surgery for more than twenty years. He do cosmetic surgery of many fields including lower blepharoplasty.