



Case Reports [Plast Reconstr Surg.](#) 2011 Feb;127(2):844-9. doi: 10.1097/PRS.0b013e3181fed6cb.

## Modifying the upper eyelid crease in Asian patients with hyaluronic acid fillers

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PMID: 21285787 DOI: [10.1097/PRS.0b013e3181fed6cb](#)

### Abstract

**Background:** Preliminary experience with the use of hyaluronic acid fillers as a nonsurgical alternative in the management of upper eyelid crease asymmetry and superior sulcus hollowing in Asian patients has proven promising.

**Methods:** This retrospective, interventional case series included seven patients (11 eyes) of various Asian ancestries. All patients had eyelid crease asymmetry or undesirably elevated eyelid creases along with hollowing of the upper eyelids. Upper eyelid crease asymmetry and hollowing of the superior sulcus were assessed before and after treatment. For all patients, hyaluronic acid fillers (Restylane, Medicis, Scottsdale, Ariz., or Juvéderm, Allergan, Irvine, Calif.) were injected into the retro-septal superior sulcus for eyelid hollowing and into the preseptal eyelid fold for crease asymmetry. Pretreatment and posttreatment photographs were taken. Outcomes were assessed by the total volume injected; masked, independent assessment using preoperative and postoperative photographs; and the subjective assessment of results by the patient.

**Results:** The average age was 43.1 years. The average volume of hyaluronic acid filler injected was 0.61 cc per eye. All seven patients were satisfied with the cosmetic improvement after hyaluronic acid filler injections. No adverse effects were noted. To date, the treatment has remained effective for as long as 18 months.

**Conclusions:** Hyaluronic acid filler injections into the upper eyelid and superior sulcus are effective in providing volume to recreate the fullness natively present in the Asian upper eyelid. Furthermore, this fullness lowers the surgically created eyelid crease in those patients with eyelid asymmetry following cosmetic blepharoplasty. It should be considered in Asian patients presenting with upper eyelid hollowing or asymmetric eyelid creases.

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