

Double Eyelid Crease Surgery for Ingrown Eyelashes: A Case Report

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ABSTRACT

Introduction: In order to filter particles and protect the eyes, eyelashes on the upper eyelids often grow upward. These eyelashes can occasionally grow downward, which can result in ocular discharge, conjunctival injection, and a feeling of a foreign body. Trichiasis is the medical word for this illness in ophthalmology. A minor form of cicatricial entropion is the main culprit. However, congenital disorders like Epi-blepharon are very frequently observed in Asian kids. Cryotherapy, eyelash epilation, elliptical excision for eliminating the surplus skin, soft tissue, and fat, after which the muscle fascia is attached to the tarsal to form double eye lid folds, are a few management techniques for this condition based on the causes.

Case presentation: A fifteen-year-old boy who had a problem with his upper eyelashes growing downward was brought to an outpatient clinic. They resulted in ocular drainage and irritation. Physical exam revealed no evidence of a traumatic occurrence. No conjunctival injection, no eye discharge, and no cicatrix on the upper eye lids are present in either eye, and both eyes have upper eyelashes that have grown down to the eyeballs. The general state is unimpressive. As a result, the incision technique was chosen to create the eye creases, with the primary goal being to raise the top eyelids and eyelashes.

Discussion & Conclusion: Local anesthesia was used throughout the surgery. In order to remove a small amount of skin, subcutaneous tissue, soft tissues, and slightly protruding fat, an oval incision was made. To produce double eyelids, the tarsal plates are joined to the muscular fascia. Incision method in creating double eyelids looked natural and it stays permanent.

Keywords: Trichiasis, double eye lid creases, Epi-blepharon.

INTRODUCTION

In order to catch the dust and protect the eyes, eyelashes on top eyelids often grow upward and toward the forehead (1). These eyelashes can, however, occasionally develop incorrectly inward and downward directions, approaching the eye. Trichiasis is the medical name used to describe this illness. Adults have trichiasis more frequently than do kids. The most frequent cause of trichiasis is a mild cicatricial entropion condition known as marginal entropion, which pulls the edge of the eyelid inward and misdirects the eyelashes. However, congenital condition which is Epi-blepharon also commonly seen in Asian

children (2). Several modalities for treating these conditions based on the causes, such as; Cryotherapy, electrolysis, eyelashes epilated, reconstructive elliptical excision of the redundant skin and muscle (3).

The crease above the eyelashes is made natural-looking with double eyelid surgery. An eyelid's anatomical components include skin, soft tissue, fat, muscle, and the tarsal plate (4). The techniques used for eyelid surgery include concealed sutures, partial incisions, and incisions. Buried suture is done by tying the inner muscle and inner skin of the eyelid together, meanwhile, Partial incision method by making an incision 10 mm in the middle of the folds.

The creases on both sides are formed using buried suture. The incision method is made on the eyelid line to remove some tissues, including, skin, connective tissue, and fat. Then the dermis layer below the line is stitched to either fascia or tarsal plates, allowing them adhere to one another by forming scar tissues. The incision method gives a long-lasting eyelid and takes longer time to subside (4).

CASE PRESENTATION

Fifteen-year-old boy was brought by his parents to outpatient clinic for problem on his upper eyelashes which grown downwards. They caused irritation and eye discharge. Consultation with an

ophthalmologist, patient was suggested to undergo procedure due to pull of the eyelashes which stuck in to the eye balls. Patient had no history of traumatic event. On physical examination was found, both eyes showing upper eyelashes grown downwards to the eyeballs, no conjunctiva injection, no eye discharged, and no cicatricial on the upper eyelids. (Figure 1 A, B, C)

Hence, Blepharoplasty procedure was chosen, with incision method was chosen for creating the eye creases, under local anaesthesia, with the main point is to elevate the upper eyelids together with the eyelashes. Figure 2.



Figure 1 A: before surgery



Figure 4 A: Two years post surgery



Figure 1 B: before surgery



Figure 4 B: Two years post surgery



Figure 1 C: before surgery the right eye



Figure 4 C: Two years post surgery



Figure 2: Preparation for surgery



Figure 3: Directly Post surgery

The procedure was done under local anaesthesia with lidocaine and epinephrine. The elliptical incision was performed, in order to remove a little skin, subcutaneous layer, soft tissue and slight protrusion fats. Then the muscle fascia is connected to the tarsal plate with non-absorbable 5-0 thread, for creating double eyelids, in order to elevate the upper eyelids together with the eyelashes. Then the wounds were closed with non-absorbable 6-0 thread. Minimal hematoma and oedema were noticed. (Figure 3). However, after one week those hematoma and oedema began to subside. This incision method in creating double eyelids looked natural and it stay permanent. (Figure 4 A, B, C). However, linear line scars on the upper eyelids while close the eyes were noticed.

DISCUSSION

The quickest and least invasive method for treating trichiasis is to pull the afflicted eyelashes (5). However, this process must be repeated. As a result, the incision technique was selected to create double eye creases (4). The incision method offers a quick and safe surgery with pleasing clinical and aesthetic results.

In order to minimize bleeding and speed healing, the treatment was carried out under local anesthesia. Elliptical incisions were made to remove skin, subcutaneous tissue, soft tissue, and fat that slightly protruded from the body in order to create double eyelids and elevate the upper eyelids and eyelashes. This permanent double eyelid technique used incisions to seem natural. When the eyes are closed, however, linear scars on the upper eyelids may still be visible (6).

CONCLUSION

Trichiasis condition can be treated with various treatment option, but in this case, surgeon prefer Surgical technique to create double eyelid while also lifting the eyelash. After the eyelash was lifted, symptoms to

the patient eyes were decreasing. Surgical technique provides satisfying result, although in this case, surgical scar was still noticed when the patient closed his eyes.

Declaration by Authors

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