

Research Article

Comparison the Effects of Eyebrow Lifting, With Two Conventional Surgical Methods and the Method of Using Barbed Yarns

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ABSTRACT:

Introduction: The tendency for eyebrows cosmetic surgery is increasing. The tendency to different methods, as well as the existence of different therapeutic methods and the lack of proper judgment in the stability of each of these methods, as well as the advantages and disadvantages of different methods of lifting eyebrows, led us to do this research and compares different methods and examines the degree of stability and impact of each.

Materials and Methods:

In this study, 20 samples were studied in two groups: ordinary surgery and barbed yarn. The values for changes in eyebrow distance to the hair line, the eyelid distance to the tragus, and the distance between the eyebrows to the lateral cantos of the eye before and one week after the test, were observed and recorded in the three-month intervals, after three Monthly and after six months, the corresponding amounts were tracked, observed and recorded.

Results: The findings of this study showed that all measured intervals were significant before and after the operation, but in the effect of time on the distance between the eyebrow arch and the hair extension line, the eyelid margin to tragus, and the eyebrow distance to the lateral Cantus was not significant. The time and manner of running on the eyebrow distance to the hair extension line, the distance between the eyebrows to the hair extension line, the distance between the eyelid to tragus and the eyebrow distance to the lateral angle of the eye were not significantly affected.

Conclusion: Changes in both surgical methods with using yarns in eyebrow lifting have been effective, so these two methods during the study period did not differ in eyebrow lifting.

Key words: Eyebrow, Lifting, Temporal Surgery Eyebrow Lifting, Barbed Yarns

INTRODUCTION:

Eyebrow lifting surgery has special place for several years in aesthetic efforts to improve the appearance of aging face (1). The surgeon's goal in this process is to eliminate bloating, muscular

imbalance, and lack of beauty in the shape of the eyebrows. The area of the eyebrows and around the eyes plays an important role in expressing sadness, happiness, well-being and aging.

Various ways have been presented for decolorizing and relaxing skin from recent decades (2-4). Common surgical procedures for lifting eyebrows are provided by preparing various plans, cutting and fixing points designed to reach new and natural points in the face. Of course, with Botox injections, you can remove the forehead wrinkles without surgery and temporarily, and also this work can cause eyebrows lifting(4).

The temporal method for drawing the eyes and eyebrows is a appropriate method. In this method, the eyebrow lifting location is hiding in cutting place and is not visible. The ideal eyebrow-lifting method should be a way to learn it easily, make it quick and eventually result in an eyebrow tune up to the desired length and long lasting durability as the results. In addition, the ideal method should have the least visible perforation and also the lowest risk of side effects, including damage to the sensory and motor nerves (5). The small incision method with the endoscope in a coronal eyebrow surgical procedure was first proposed by Blind et al. (6). This method is able to achieve better brow brushing than other small incision methods, especially at the top of a third Middle eyebrows. However, the limitations of this method can be seen in its technical challenges, as well as the need for access to the required equipment and familiarity with this equipment. Other disadvantages of this method include the need for high tissue texture to be fixed and shift the petiotic skin location rather than the easy cutting of the skin. Eyebrows lifting action with a small incision without an endoscope is similar to that of a small incision with an endoscope, except that instead of seeing the endoscope images, the marking on the skin is used in this method, just like surgery. Lifting the eyebrows with using the endoscope, are made with 3 incisions behind the hair line.

The incision on the sub-periosteal the orbital Hairy upper gap bones eye socket, and the root of

the nose continues (7) lift the eyebrows by temporal suitable for people who need to raise his eyebrows in large quantities and to improveThe position of the lateral side of the eyebrows. The main goal in this surgical procedure is to remove or transverse the orbital ligament laterally to maximize the movement upward of the superficial temporal inclination (8). Lifting eyebrows through blepharoplasty: Benefits of restoring eyebrow drooping through blepharoplasty, including minimizing cuts and, consequently scar is possible. Also, the results of simultaneous blepharoplasty remain longer. After a blepharoplasty wound, an incision in the submandibular plate is approximately 1 to 1.5 cm above the super lateral orbital rim (9). Today, botulinum toxin can be injected into specific muscles of the body responsible for holding the eyebrows. (10) Eyebrow raising directly: The benefits of this type of eyebrow surgery are as follows:

- ✓ An effective way to raise your eyebrows to your liking
- ✓ Ability to change eyebrows to desired state
- ✓ Remove a slight loss of the upper eyelid
- ✓ Low surgical duration
- ✓ The possibility of direct lift control

The only disadvantage of this method is that the incision site on the upper edges of the eyebrow may be somewhat visible after the operation (11). The trichophytic method or the lifting of the eyebrow extension line is a kind of correction of coronal stretch, in which the incision is performed precisely in the hair extension line irregularly to camouflage the cutting site (12) HYPOTHERAPY is a very effective therapeutic treatment for eyebrows and foreheads. The effect of this method is not as a surgical procedure for eyebrows or foreheads, but an excellent option without the need for surgery. Hyphotherapy is a method in which ultrasound energy is used without the need for surgery. This method is used to draw the neck, under the chin (forearm), over the eyebrows, etc. (13) The advantage of lifting

the eyebrows in the coronalin method is that the entire cutting area, as well as the stitches, are hidden inside the scalp and hidden in the hair and thus not visible. The disadvantages of this method include lack of control of the lift, inability to control asymmetric, high tension, alopecia, broad scars, ripples and extension of the forehead, magnitude of operation and temporary stomach ache. The thread-lifting process creates a real stretch, has a long, long-lasting effect, and slightly milder, plays the same role as brushing in surgical procedures. The hooks of the threads, like a clamp in the tissues, hang like an umbrella to support facial structures, which raise the hanging of the facial tissue (14-16)

Hafezie et al. (17) To eliminate the lines of frowning and lifting eyebrows, they proposed a method for making small cuts with the help of an endoscope. After anatomical examination in the eyelids and forehead muscles, a lower limb muscle contraction was done by means of high eyelid insertion. Then, two surgical methods were combined and a new method for lifting for forehead was introduced without using the endoscope.

The results of studies by Mashhak et al. (2008) showed that in elderly people with a loose in forehead skin and with eyebrows fallen, a short-cut eyebrow surgical technique had better effects than conventional surgery (18). The tendency for eyebrow aesthetic surgery is growing. The tendency to different methods, as well as the existence of different therapeutic methods and the lack of proper drug in the stability of each of these methods, as well as the advantages and disadvantages and different consequences of using different methods of lifting eyebrows, led us to This research compares different methods and examines the degree of stability and impact of each.

Materials and Methods: This interventional study was carried out on 20 patients referred to the oral and maxillofacial surgery department and plastic surgery department (randomly selected) during

15 months from January 2012 Under the action of face lift in two ways:

1) Ordinary Surgery with Temporal Lifting Technique

2) Use of barded yarns with local anesthesia

The sample size was estimated at $\alpha = 0.05$ and $\beta = 0.15$ for 20 samples. The 20 patients in the age range of 30 to 60 years old were divided into two groups, in one group with normal surgery and in the other group done facial lifting by barded yarns, and stability after surgery, examined after three months and after six months, and data were collected. The stability of the eyebrows raised from the eyebrow point to the tragus, and the distance between the closest line and the highest point of the eyebrow arch to the hair line and also from the corner of the eyelid to the eyebrows were measured. (19). Data was collected by using observation method and using digital caliper to measure the values. The yarns used in this research, the I. Tread yarn with the head and neck of the South Korean cog model, had KFDA and GMP and were absorbable for two years. Data were analyzed and evaluated by spss software version 20. Results of the research was presented in two descriptive and research hypotheses tests in the fourth chapter of the research. In the descriptive section of descriptive statistics, mean, deviation from the criterion, variance, and min and max values were used, and in the inferential part, using repeated measure variance analysis, the research hypotheses were answered. All provisions related to medical ethics were followed up in the research and all research-related activities and processes were conducted in such a way that the rights of patients, including avoiding unnecessary damage, protecting the secrets of patients, etc., were to be considered.

Results: In this interventional study conducted in year 94, the average age of the sample population was 46.2 years (min 25 and maximal 60 years) and the highest age was related to people who were 60 years old. 75% of the subjects were female and 25% were male. The results of the

educational status of the individuals showed that the highest number of undergraduate and graduate students (6 persons, 30% of the total subjects), as well as 4 primary and secondary education, 3 associate professors and 1 person Also attended Ph.D. In the surgical uplift group, were 8 women and 2 men, and in the brow lift group, randomly selected using barded yarns, were 7 women and 3 men. The distribution of the

scores related to the distance between the eyebrows arch to the hair extension line in Table 1, the distribution of the scores between the corner of the eye to the tragus in Table 2, the distribution of scores between the eyebrows to the lateral cantos of the eye in Table 3, and the distribution of scores between the eyebrows to the hair extension line according to The surgical procedure is shown in Table 4.

Table 1. Distribution of scores related to the distance between the eyebrows arch and the hair extension line

six months after surgery	three months after surgery	one week after surgery	Before surgery		
20	20	20	20	valid	frequency
0	0	0	0	invalid	
4.3850	4.3650	3.8400	5.0050	average	

Table 2. Distribution of scores from the corner of the eye to the tragus

six months after surgery	three months after surgery	one week after surgery	Before surgery		
20	20	20	20	Valid	frequency
0	0	0	0	invalid	
8.4850	8.4750	8.4700	8.5100	average	

Table 3. Distribution of scores from the corner of the eye to the lateral cantos of the eye

six months after surgery	three months after surgery	one week after surgery	Before surgery		
20	20	20	20	Valid	frequency
0	0	0	0	invalid	
8.4850	8.4750	8.4700	8.5100	average	

Table 4 - Distribution of scores of distance of eyebrow arch to the hair line extension according to the surgical procedure

six months after surgery	three months after surgery	one week after surgery	Before surgery	Surgical procedure	
4.3800	4.3800	3.8400	4.8600	average	Surgical method with barbed yarns
10	10	10	10	frequency	
4.3900	4.3500	3.8400	5.1500	average	Usual Surgery
10	10	10	10	frequency	

According to the data of the tables, it can be seen that the distance between the eyebrows to the hair extension line in the male and female, and the surgical method in the post-operative periods, do not differ with each other. In the first postoperative period, the first week after surgery,

these values are marked by a pre-operative period, but as long as the duration of the action has gone, the values of the changes are lower and closer to the preoperative period.

Conclusion: The present study was conducted to compare the effect of eyebrow lifting on two

types of surgical procedures and the method of using barbed yarns. Since there are various methods for lifting eyebrows, it has always been the case that which method is the best method of intervention therapy, and on the other hand which optimal method, with relative benefits and better effects is better than other methods.

The results of this study showed that in two methods of operation with ordinary surgery and barbed yarn, distance between eyebrow arch to the hair extension line, the distance between the eyebrows corner to the lateral cantos of the eye and the distance between the eyes corner and the tragus is not significant. The results of this study suggest that studies that compare the changes in stability and the practice of conventional practice with the use of barbed yarns in eyebrow lifting are not found by searching for resources and databases.

It has a very small comparability with other research. Nevertheless, the results of this study are not consistent with the results of the study by Jones and Grover, who evaluated the objective and long-term effects of lifting eyebrows surgery by using endoscopes and the degree of stability or reversibility of the eyebrows. In their research, they found that there is a significant difference in the degree of stability of the two surgical techniques of using fibrin glue and polydextone suture on the degree of reversibility.

Of course, this comparison will be correct when used these methods in this research. In 2001, Alcoud et al. Suggested that a short cut method using endoscopic technique leads to better results, such as less cutting and bleeding, and shorter recovery (21). Hafizai (17), Marshak (18) and Matros (22) also achieved the same result. However, in the present study, there was no significant difference in the eyebrow reversibility during the time between the two common surgical procedures and the surgery with barbed yarn. Also, changes in measured values showed that there were significant changes in both types of surgery. However, significant changes were

observed in the variables dependent on the surgical procedure, and the changes in both methods were significant, but comparing the two methods with each other, there was no significant difference at this interval.

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