Shaping the nasal tip: A new approach to transdomal suturing

Sir,

Shaping the nasal tip is one of most challenging parts of rhinoplasty. Evolving experience has shifted nasal tip surgery from alar cartilage-cutting techniques to alar cartilage-sparing surgery. Hence, intervening in the nasal tip increasingly relies on cartilage relocation and re-orientation, rather than reduction and cutting.

In this context, transdomal sutures (TDS) are conventionally used to narrow the distance between the domes and increase tip projection. TDS form the tip double break and provide a better tip-columella ratio. Nevertheless, TDS placement is not without problems, especially in cases of very rigid domal cartilages. Personal experience suggests that excessive bulking at the tip area and a round shape of the tip may be the final outcome in such cases. We propose a modified TDS/intercrural suture, aiming to give a more natural shape to the tip, which is easily placed and is highly effective.

The new approach to transdomal suturing includes open rhinoplasty and cephalic trimming. Suturing starts with a right cephalic domal bite in an anticlockwise fashion, continues by stitching the collumellar segment of the medial crus from the right, then stitches the collumellar segment of the medial crus from the left and ends up with a cephalic domal bite to the left, again in an anticlockwise fashion [Figure 1a and b]. The open approach facilitates symmetric suture placement. The use of single stitch and not two separate ones, while freeing both domes to the same height before suturing, greatly reduces the probability of an undesired outcome. Suturing is performed using a 4.0 polydioxanone suture stitch.

The advantages of the proposed new approach to transdomal suturing become clearer, if one takes into account the problems in shaping the nasal tip, which may be encountered in every day practice. These problems become especially obvious in case a surgeon decides to change the tip definition, in combination with an overlay technique and cartilage division at the tip area, when lower lateral crus struts are used, and in revision cases, where the domal area is damaged and the domal cartilage too thin. Placing the stitch down to the collumellar segment of the medial crus, in the aforementioned cases, is more easily performed compared to the traditional mattress TDS technique, as this area is relatively untouched, and the surgeon may avoid crowding the domal area with knots, which may also add to its friability.

In addition, the modified TDS/intercrural suture avoids parallel pinching of the domes, maintains their natural divergence and may also be helpful regarding tip grafting. Cartilage asymmetries and/or small nasal tips can also be relatively easily hidden. No complications from this type of suturing have been encountered so far, and the postoperative results have remained stable at the 2-year follow-up [Figure 2a and b].

Declaration of patient consent
The authors certify that they have obtained all appropriate patient consent forms. In the form the patient(s) has/have given his/her/their consent for his/her/their images and other clinical information to be reported in the journal. The patients understand that their names and initials will not be published and due efforts will be made to conceal their identity, but anonymity cannot be guaranteed.

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Conflicts of interest
There are no conflicts of interest.

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A popliteal pterygium syndrome: A rare syndrome

Sir,

This report describes the clinical features of an adolescent female who presented to us for popliteal webbing and hence difficulty in walking and operated cleft lip and palate with lower-lip pits. She was diagnosed as popliteal pterygium syndrome (PPS), which is a rare autosomal dominant congenital disorder described by Trelat in 1869 that includes orofacial, cutaneous, musculoskeletal, and genital anomalies.

Prevalent features in common with Van der Woude syndrome, also inherited as an autosomal dominant condition. The minimum diagnostic criteria for PPS are any three of the following: cleft lip/palate, popliteal pterygium, paramedian lower-lip pits/sinuses, and genital and toenail abnormalities.

Lip pits, which may resemble a depression or furrow, represent the opening of a tract leading from a mucous gland embedded in the lip. Lip pits may be divided into three types according to their location: commissural, midline upper lip, and lower lip. The genital anomalies include cryptorchidism and bifid scrotum in males and hypoplastic labia majora and uterus in females. Various hypotheses include a primary microvascular abnormality with associated oedema leading to disturbance of epithelial tissues resulting in adhesion formation, excessive epithelial growth leading to fusion, and secondary mesenchymal involvement, a primary collagen defect or a loss of programmed cell death.

We present this case of a 14-year-old girl who had difficulty in walking for 12 years. She was operated for cleft lip and palate at 2 years of age. Her two paternal uncles had similar features of this syndrome, but her parents were healthy and unrelated. There was no significant antenatal history. Her developmental and menstrual histories were normal. She had extensive popliteal webs, extending from the ischial tuberosities to the Achilles tendons as a fibrous cord, and was unable to extend her legs fully with tight Achilles tendon with ankle in equinus. She had hypoplasia of the labia majora. She had a surgical scar of a repaired cleft lip and palate and the lower-lip pits were present. Magnetic resonance imaging of the right distal thigh and leg revealed diffuse fibrofatty changes in the muscles representing mild fatty atrophic changes and associated with mild fatty atrophic changes and associated.

References


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