Introduction

Basal cell carcinoma (BCC) is also termed rodent ulcer, basalioma, Jacob’s ulcer, and basal cell epithelioma. About 75% of all skin cancers are basal cell carcinoma.1 The incidence of metastasis of BCC is very low.2 Risk factors for the growth of BCC includes physical features, such as green or blue eyes, light skin color, red or blonde hair, exposures to arsenic, tar, coal, smoking, ionizing radiation, ultraviolet light, tanning-bed use, genodermatoses, like xeroderma pigmentosum, albinism, Gorlin’s syndrome (Nevoid basal cell carcinoma syndrome), Rombo syndrome, Bazex Dupre Christol syndrome, immunosuppression includes recipients of solid organ transplants.3

Basal cell carcinomas are generally divided depending upon their variations in histological patterns. The histological patterns are superficial, morpheaform, nodular, pigmented, and micronodular.1 Nodular (60%) and superficial (25%) BCCs are usually referred to as nonaggressive types, while micronodular (15%) and morpheaform (2%). Basal cell carcinomas are usually considered as aggressive types, associated with a greater risk of local recurrence.8 BCCs of the head and neck region are more frequently seen in females (85.2%) than in males (81%), independent of their histological type.5

The medial canthus is a common site for BCCs.5 The medial canthal region represents the utmost challenging periorbital zone to reconstruct. The medial canthal region contains the bony attachments of the medial canthal tendon and the neurovascular structures and the lacrimal system. Conventionally, this region has been reconstructed using V-Y advancement flaps, skin grafts, laterally based upper eyelid and cheek flaps, and glabellar flaps.7 A case of BCC of medial canthal region with preauricular skin graft was reported.

Case Description

A 52-year-old female reported to OMFS department, MGM Dental College and Hospital, with gradually increasing nodular growth over medial canthal region since 10 years. Professionally, she was a street vegetable seller with increased hours in the sun.

On extraoral examination, 1 cm irregular, brownish black, nodular growth was present over left medial canthus region. Punch biopsy confirmed it to be a nodular cystic BCC.

Under local anesthesia, lesion was excised with 5-mm margin. The medial canthus was left intact. Full-thickness skin graft was then harvested from the left preauricular region. The skin graft was defatted and sutured to the recipient site. A BIPP-impregnated bolster (Figs 1 to 8).

Discussion

The aim of primary management of basal cell skin carcinoma is the cure of the tumor and the maximum preservation of function and esthetics. Surgical approaches usually offer the most effective and efficient means for accomplishing cure.8

The classification of BCC, periauricular region, nose, periorbital region, lip and angle of the jaw along with the hand, feet, and genitals are considered as “H zone”—areas with a high recurrence risk. The remaining face and scalp region along with the neck and preauricular region are considered as “M zone”—areas
with a moderate recurrence risk. The “L zones”—areas with a low recurrence risk includes the trunk and extremities.5

The medial canthal region, H zone, represents one of the most challenging regions of the face to reconstruct due to the differences in skin texture, the concavity of the area, and the anatomical structures present.6 Defects in the medial canthal region requires reconstruction with the surrounding tissue so that it will have a normal shape and function.7

Fig. 1: Markings with a safety margin of 5 mm

Fig. 2: Complete excision of lesion with clear margins

Fig. 3: Surgical defect transferred to donor site

Fig. 4: Skin graft was harvested

Fig. 5: Defatting of skin graft

Fig. 6: Skin graft was sutured over defect without border tension
Numerous options available for the medial canthal reconstruction including healing by secondary intention, full thickness skin grafts, and local or regional flaps. Small lesions (<1.5 cm) that do not involve upper or lower eyelid can heal by secondary intention, especially in older adults. When the wound is large (>1.5 cm), secondary healing and wound contracture may lead to ectropion formation. Skin grafting can provide esthetically satisfactory outcomes provided that the patient and defect are thoroughly examined preoperatively. Superficial defects up to 2 cm can be repaired using skin graft. In our case, we decided to go for skin grafting, as defect was superficial, periosteum was intact in the recipient site, and any local flap would have created another visible scar on forehead and distorted adjacent tissue. Skin graft can be harvested from upper and lower eyelid, retroauricular, supraclavicular, and preauricular region. We opted for preauricular region, as the patient was old with enough lax skin and wrinkles on face. Skin graft was defatted to increase the uptake of the graft at the recipient site. After removal of bolster dressing at 10 days, there was good uptake of the graft.

**CONCLUSION**

Reconstruction of medial canthal region is a complex process due to the shape and the complex anatomy of the area. Skin graft is useful technique in large superficial defects involving the medial canthus with good cosmesis and minimum postoperative complications.

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