

(CASE REPORT)

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## Head and neck cutaneous basal cell carcinoma: A challenging entity of ENT surgeons

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### Abstract

Otorhinolaryngology head and neck (ENT) surgeons are often challenged in their daily practice with patients presenting cutaneous cancer. Cutaneous basal cell carcinoma (cBCC) is the most common cancer diagnosed in human population, with 80% occurring in the head and the neck. We present the case of a 56-year-old male patient with an extensive lesion on the right zygomatic area that examined in the outpatient ENT Department of our hospital. A surgical excision of the lesion was performed, under local anesthesia and then we used a superficial based neck flap to reconstruct the defect. The final postoperative result was satisfactory. The histological examination revealed a basal cell carcinoma.

**Keywords:** Neck flap; Skin lesion; Basal cell carcinoma; Reconstruction

### 1. Introduction

Cutaneous basal cell carcinoma (cBCC) is the most common malignancy diagnosed in the human population, accounting for 70-80% of all skin malignancies in fair-skin people and has an increasing incidence [1]. cBCC is mainly found in the head and neck at a rate of 80% and surgical removal remains the main method of treatment, particularly when diagnosed early [2, 3]. It is rarely metastasizes and has a low mortality rate, while its morbidity is affected by local invasion and destruction, especially in the face, where function and aesthetics are major issues [4]. This makes cBCC an important issue for head and neck otolaryngology surgeons who need to be knowledgeable and dedicated to its management, as the mainstay of treatment is still surgery. We present the case of a man with a BCC of the right zygomatic area with extension to the medial canthus that removed using a surgical excision. The reconstruction was performed using a neck flap.

### 2. Case report

A 56-year-old male patient examined in the outpatient ENT Department of our hospital, because of a lesion on the right zygomatic area, for about two years. According to the patient's medical history, at the last two weeks the lesion has shown a rapid increase in size after injury with the patient's nails. The patient visited the emergency room (ER) of a provincial hospital. ENT doctor was not on duty and the general surgeons treated it as an abscess, so they opened it and drained it. The patient received antibiotics for ten days and after that he visited our outpatient ENT Department, where extensive lesion was found in the zygomatic area, extending to the medial canthus (Figure 1). The patient has a chronic renal failure undergoing dialysis and he receives antihypertensive and anticoagulant medication. Through clinical examination, we did not reveal any other pathological findings. No lymph nodes were found in the neck area.

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After a preoperative evaluation, included hematological and cardiological tests, a surgical excision of the lesion was performed, under local anesthesia. A resection line was drawn around the lesion. A second resection line was drawn in the right neck area, to be used for the reconstructive flap. Neutralized lidocaine with epinephrine used for local anesthesia. The lesion removed through an excision followed by haemostasis with bipolar diathermy.

Biopsy was fixed in formalin and sent to a referral laboratory for histological preparation and examination. We used thin skin sutures to fix the skin. We used a pressure bandage to prevent the occurrence of a hematoma that remained in place for 5 days.

Five days later, the most stitches removed safely, as the patient followed the aftercare instructions (Figure 2). The rest stitches removed 5 days later. Both surgical incisions heal, so the final postoperative result was satisfactory (Figure 3, Figure 4). The histological examination result revealed a basal cell carcinoma, as expected.



**Figure 1** Extensive lesion on the zygomatic area, extending to the medial canthus



**Figure 2** Postoperative result, 5 days after the reconstruction



**Figure 3** Postoperative result, after the stitches removal



**Figure 4** Final postoperative result, after surgical incisions heal

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### 3. Discussion

Basal cell carcinoma is one of the commonest skin cancers of the head and neck area. Its localization can be anywhere and many techniques proposed for its surgical excision [5]. Surgical removal of the entire lesion with clear margins is standard treatment for cBCC [6]. Surgical excision is followed by primary closure or reconstruction with tissue flaps, skin grafts, or healing by secondary intention [7]. In some patients, the surgical wound is closed after definitive histopathological diagnosis [8, 9, 10]. We used a superficial based neck flap to reconstruct the defect of a 56-year-old man. We achieved complete coverage of the deficit remained after surgical excision of the lesion. The graft did not reject and the perfusion was effective.

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### 4. Conclusion

The cBCC is, and will continue to be, a major public health problem due to its increasing frequency, causing an increased financial burden on healthcare systems. CBCCs are mainly found in the head and neck, making these lesions very

important for ENT surgeons who need to be clinically competent and know how to manage them, as the main method of treatment is surgery.

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## Compliance with ethical standards

### *Disclosure of conflict of interest*

The authors declare no conflicts of interest regarding the publication of this paper.

### *Statement of informed consent*

Informed consent was obtained from all individual participants included in the study.

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